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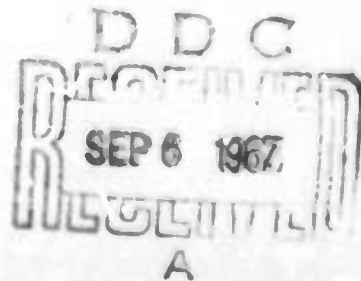
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AD819345

CUMBERLAND PLATEAU OBSERVATORY

Quarterly Report No. 7

1 February 1967 through 30 April 1967



TEXAS INSTRUMENTS  
INCORPORATED

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ARPA Order 624  
Project Code 5810

VT/6704

CUMBERLAND PLATEAU OBSERVATORY

Quarterly Report No. 7

1 February 1967 through 30 April 1967

James P. Edwards, III, Program Manager

TEXAS INSTRUMENTS INCORPORATED

Science Services Division  
P. O. Box 5621  
Dallas, Texas 75222

STATEMENT #2 COVER SHEET. AF 33(657)-14648

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Prepared by  
AIR FORCE TECHNICAL APPLICATIONS CENTER  
Washington, D. C. 20333

Sponsored by  
ADVANCED RESEARCH PROJECTS AGENCY  
Nuclear Test Detection Office

30 June 1967





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## SECTION I

### INTRODUCTION

This report reviews the work conducted by Texas Instruments Incorporated under the CPO Operations and Research Contract during the final contract quarter - 1 February 1967 through 30 April 1967. Activities during this period were directed primarily toward routine observatory operation, completion of all research tasks and preparation of special reports covering this work, and transfer of the observatory facilities and equipment.

Presented in Section II is a description of observatory operations conducted during the quarter. Results of routine analysis and a discussion of preventive and remedial maintenance required during the period is included.

Section III outlines and summarizes the research work conducted during this quarter. Details of the noise analysis, MCF evaluation and Auxiliary Processor evaluation are presented in special reports (now in preparation) covering each of these areas.

The transfer of CPO facilities and equipment is the subject of Section IV. For future references, lists of equipment, facilities and expendable supplies which were transferred are provided in the Appendixes. Disposition of each of these items is included.



## SECTION II

### OBSERVATORY OPERATIONS

During the last two months of operation (March and April), particular emphasis was placed upon transfer of the CPO facilities and equipment, including extensive preventive maintenance work to insure that the observatory would be in top operating condition at the time of transfer. Details of the transfer are presented in Section IV as a separate topic.

#### A. STATION ANALYSIS

Station analysis proceeded routinely during the quarter with daily reports being made to USC&GS on events detected. Data recordings were good and no major loss of data was incurred. However, operational difficulties were encountered with the Helicorder which at times hampered the daily calibration and weekly equalization tests.

The number of events which were reported during the quarter is as follows:

<u>Month</u>	<u>Teleseisms</u>	<u>Regionals, Near Regionals</u>
February	630	10
March	406	2
April	342	10

Section III discusses results obtained in the analysis of the MCF - Auxiliary Processor data.

#### B. STATION RESEARCH

Research was previously directed toward evaluation of the MCF - Auxiliary Processor system. However, as a result of the observatory transfer which caused increased work load requirements on observatory personnel during March and April, responsibility for analysis of this data was shifted to Dallas where additional analysis support was available.





### C. STATION INSTRUMENTATION

Emphasis on preventive maintenance continued during this quarter and, as a result, no major equipment failures occurred which could cause a significant loss of data. As discussed in Section IV, the observatory data collection and recording equipment was in good condition at the close of quarter.

#### 1. Major Accomplishments and Problems

During the reporting quarter, station personnel worked in the following areas:

##### February — Repaired calibration switch unit

Adjusted drive-pressure roller and replaced drive belt on tape 1

Performed dc pulses to all short-period seismometers

Replaced date-timer in Develocorder 1

Replaced two data-line cables

Replaced drive belt in tape 2

Performed maintenance on film viewer

Replaced Z-9 seismometer

Replaced cable to Z-17

##### March — Checked out Z-9

Performed maintenance on LP Develocorder

Replaced two reels of cable to Z-17

Replaced SP Helicorder

Repaired power-control unit after relay malfunction

Cleaned Z-10 vault

Performed dc pulses on all short-period seismometers

##### April — Adjusted Z-6 and Z-8 PTA's

Performed dc pulses and equalization on all seismometers



Ran frequency responses on all seismometers

Replaced section of data cable to Z-7

Recentered mass on LP's

The major engineering accomplishment during the quarter was the operation of the MCF and Auxiliary Processors. The operation of the two processors are discussed in CPO Special Reports No. 4 and 5.<sup>1,2</sup>

## 2. MCF - Auxiliary Processor System Maintenance and Reliability

The MCF - Auxiliary Processor system operated without a single failure during the reported quarter. The system was taken off-line on 10 April for crating and shipping to Wichita Mountain Observatory under Contract No. AF 33(657)-16563 as part of the observatory transfer.

Routine preventive maintenance performed on the system included:

- Daily step-test to verify proper operation and proper memory contents
- Periodic cleaning of the blower air filters
- Replacement of high-speed printer paper as required
- Periodic lubrication of mechanical parts in the printer and paper tape reader

The "coefficient loss" problem, discussed in Quarterly Reports 5 and 6,<sup>3,4</sup> was no longer evident. The modifications presented in CPO Quarterly Report No. 6 essentially eliminated losses. An additional refinement was made to the processor grounding system on 11 February as a result to three "coefficient losses" on 3, 10 and 11 February. Since that modification which involved internally grounding the MCF timing input, only one loss occurred through 10 April. This loss happened on 7 March during a severe electrical storm.

As a result of grounding modifications and the "rapid stop fix" incorporated into the CPO MCF processor, coefficient losses in this processor should not occur in the future except possibly on rare occasions.



### 3. Quality Control

Routine quality control of magnetic tape and Developorder film continued during the quarter as outlined in Quarterly Report No. 1.<sup>5</sup>

Checks performed showed the film data to be in good condition and the analysis forms to be accurate and complete. The magnetic tape data was in good condition with very few spikes appearing on the tape checks.





## SECTION III

### RESEARCH

During the last quarter, research was concentrated on evaluation of the MCF - Auxiliary Processor system and on off-line supporting research. Research on the other tasks, the ambient noise analysis and improvement of visual data display, was completed during the previous quarter (CPO Quarterly Report No. 6).<sup>4</sup>

The following subsection summarizes the results obtained on the evaluation tasks. Details of this work are to be published in CPO Special Reports No. 4 and 5 which are being prepared.<sup>1, 2</sup>

#### A. MCF PROCESSOR EVALUATION

##### 1. Event Detection

MCF processor evaluation was primarily directed toward determining the improvement gained in station detection capability by performing on-line Wiener least-mean-square signal extraction processing and beam-steering with frequency filtering. The basic approach has been to analyze two sets of data independently — the standard observatory primary and secondary data and the MCF processed data. Analysis results from each set were then compared on a number of events basis, and each set was also compared against verified seismic activity for association.

During the reported quarter, the two sets of data were analyzed through 10 April when the processor was taken off-line for transfer. Results from the February and March data were then associated with known seismic activity. The list of known events was not available in sufficient time to perform the association for the April data, before research work had to be terminated.

Table III-1 compares the number of events detected from each data set, and Table III-2 presents the results of associating the February and March data with the known teleseisms.



Table III-1  
TELESEISMIC CPO EVENTS DETECTED

<u>Month</u>	<u>Primary /Secondary Data</u>	<u>MCF Data</u>
February 1967	630	679
March 1967	406	611
April 1967 (through 10 April 1967)	128	274

From this data the following conclusions are drawn:

- The MCF data analysis increased the number of detected events by 34 percent
- The increase in number of associated events for the MCF data was 27 percent for  $\Delta = 80^{\circ} - 90^{\circ}$  which is the primary MCF signal detection range

Data presented in CPO Special Report No. 4 demonstrates that station analysts lowered the observatory detection level by approximately 0.5 magnitude over  $\Delta = 20^{\circ} - 90^{\circ}$  for primary/secondary data analysis as a result of analyzing the MCF data during the early period of MCF on-line operation at CPO (March - September 1966). As reported by the analysts, the study of MCF data taught them to detect low-level events on the basis of event "signatures" and "waveform" and had instructed them in new techniques to be applied to analysis of the secondary data which contains partial sum information.

Figure III-1, which demonstrates the lowered station detection level, presents perceptibility curves for CPO primary and secondary data analysis for four periods.

- 1963
- June and July 1965 — after TI first assumed operation of CPO under this contract
- January, February and 1/2 March 1966 — just prior to installation of the MCF at CPO
- February and March 1967 - after the MCF operated for 8 months at CPO



Table III-2

CPO FEBRUARY AND MARCH 1967 EVENT ASSOCIATION RESULTS

Delta	Associa- tions	Magnitude																	No Mag	Total
		<3.6	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	>5.0		
20°-30°	Missed	0	2	2	3	3	3	2	2	0	0	1	0	0	0	0	0	0	1	19
	Primary	5	1	9	7	10	8	13	6	0	7	1	4	3	1	0	0	0	5	80
	MCF	5	2	10	11	10	9	13	6	0	7	1	4	3	1	0	0	0	5	87
30°-40°	Missed	1	0	2	4	5	6	4	5	9	1	3	2	0	0	0	0	0	8	50
	Primary	0	1	2	2	9	10	10	8	2	3	0	4	1	1	1	0	4	3	61
	MCF	0	1	2	2	9	10	11	11	4	3	0	5	1	1	1	0	4	3	68
40°-50°	Missed	0	4	4	3	4	5	7	2	3	6	0	0	0	1	0	0	0	9	48
	Primary	0	0	1	4	3	2	5	1	3	3	0	2	2	1	0	2	1	0	30
	MCF	1	0	1	4	3	2	6	2	3	3	0	2	2	1	0	2	1	0	33
50°-60°	Missed	8	0	3	11	3	3	3	0	1	0	0	0	1	0	0	0	1	2	42
	Primary	2	1	0	0	6	4	4	7	7	2	1	3	2	0	2	0	3	1	41
	MCF	2	1	0	1	9	4	4	8	4	2	1	3	2	0	2	0	3	1	47
60°-70°	Missed	2	8	7	1	14	9	10	4	1	1	1	1	0	0	0	0	0	0	59
	Primary	0	1	1	2	5	3	6	8	4	6	4	3	2	0	0	1	1	0	47
	MCF	0	1	2	2	7	5	8	9	4	6	5	3	2	0	0	1	1	0	56
70°-80°	Missed	1	1	2	8	7	6	5	4	6	0	0	1	0	0	0	0	0	0	41
	Primary	0	0	0	0	1	1	3	3	1	1	2	4	3	4	0	1	3	1	28
	MCF	0	0	0	0	1	1	5	4	2	2	2	4	3	4	0	1	3	1	33
80°-90°	Missed	1	2	3	6	12	13	9	5	2	1	0	1	1	0	0	0	2	0	58
	Primary	0	0	0	0	0	0	0	2	4	3	3	2	5	2	0	0	5	0	26
	MCF	0	0	0	0	0	1	1	2	8	3	3	3	5	2	0	0	5	0	33

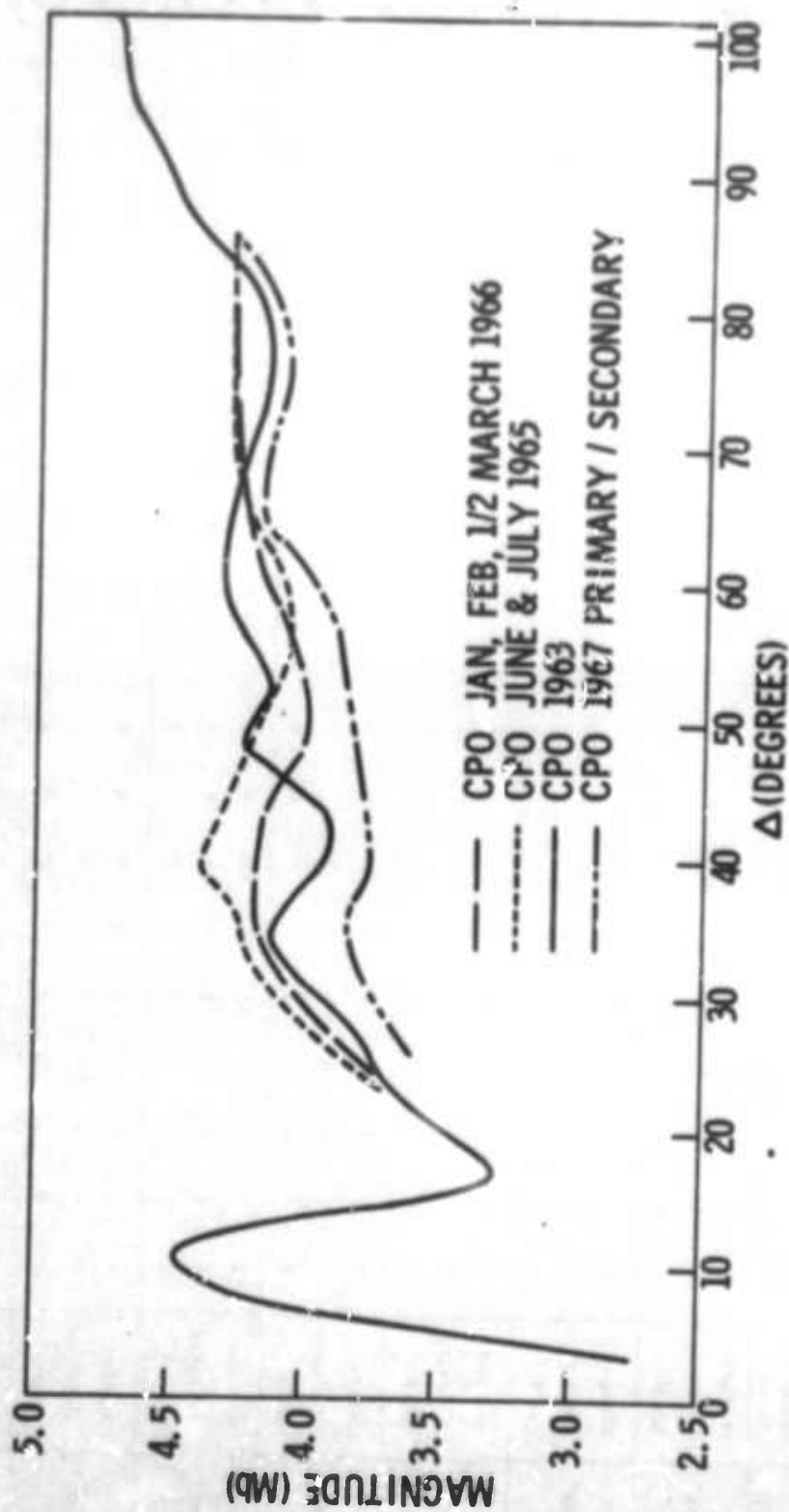


Figure III-1. CPO Perceptibility Curves





Two significant conclusions available from operation of the MCF processor at CPO over the 10 month period are

- Perceptibility for primary and secondary data analysis was lowered by 0.5 magnitude because of the analysts training caused by the MCF
- The MCF still associated 27 percent more events than the primary and secondary data in the primary teleseismic extraction range ( $\Delta = 80^\circ - 90^\circ$ ), in spite of the lowering of perceptibility

## 2. Noise Suppression

The noise suppression gained through MCF processing was measured in two ways during the last quarter:

- Standard  $N_0/N_1$  power density spectra were computed for three representative noise samples
- Standard microseismic curves were computed and compared for Z8, ET, ETF, and MCF's 1 through 4 using data from January through April 1967

Representative  $N_0/N_1$  results for one sample are shown in Figure III-2, and two sample microseismic curves are shown in Figures III-3 and III-4. The  $N_0/N_1$  power density spectra indicate that the MCF noise suppression is approximately equivalent to results obtained previously in off-line analysis work.<sup>6</sup>

The microseismic curves give a comparison between MCF data, ET and ETF, and a single instrument. These curves show a reduction of better than 6 db in noise probability of occurrence for MCF data at the 50 percent level of probability compared with the appropriate summation data. Since the probability of occurrence is measured over the primary signal band (0.71 to 2.50 cps), these data indicate that the MCF should show a significant improvement in S/N for teleseismic signal above summation processing.

## B. AUXILIARY PROCESSOR EVALUATION

Operation of the Auxiliary Processor system at CPO was directed toward obtaining an extensive evaluation of on-line automatic detection

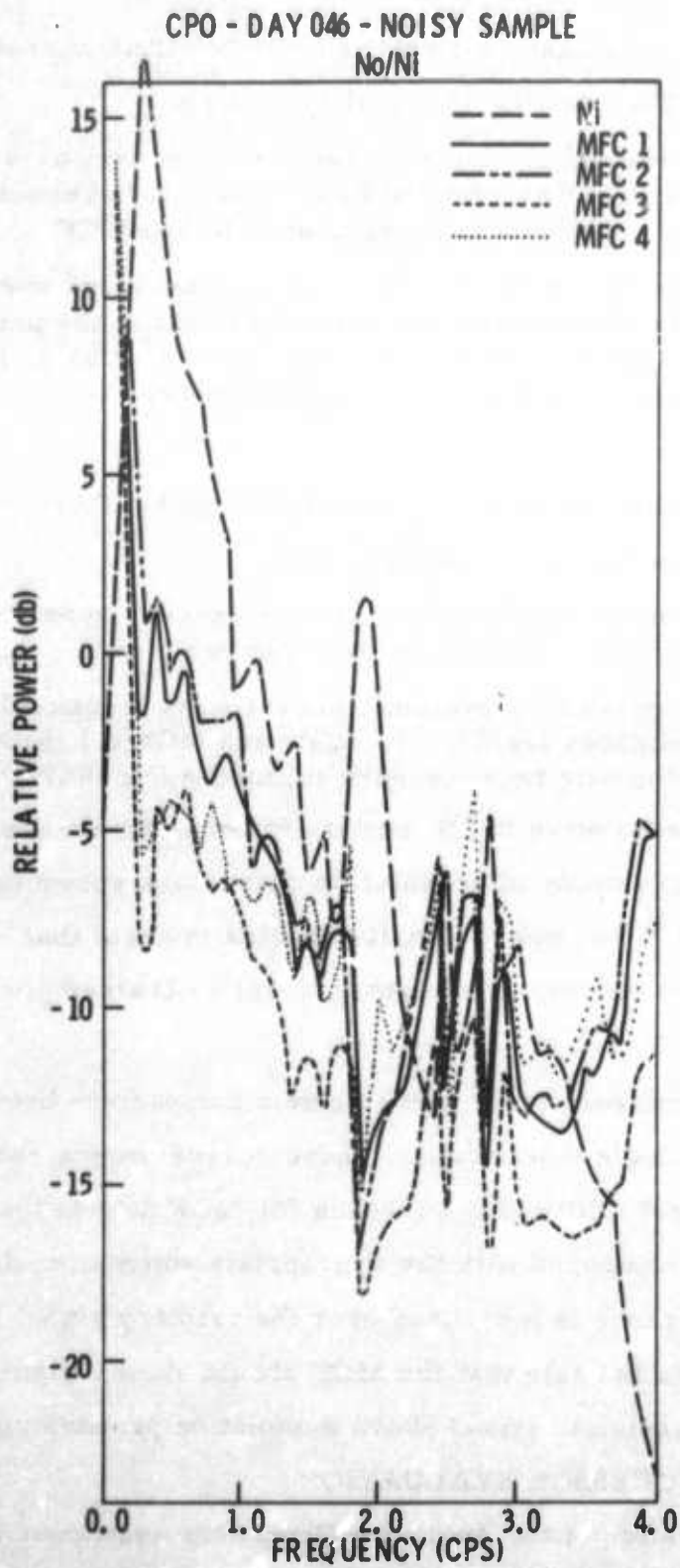


Figure III-2.  $N_o/N_i$  Curves for Day 046

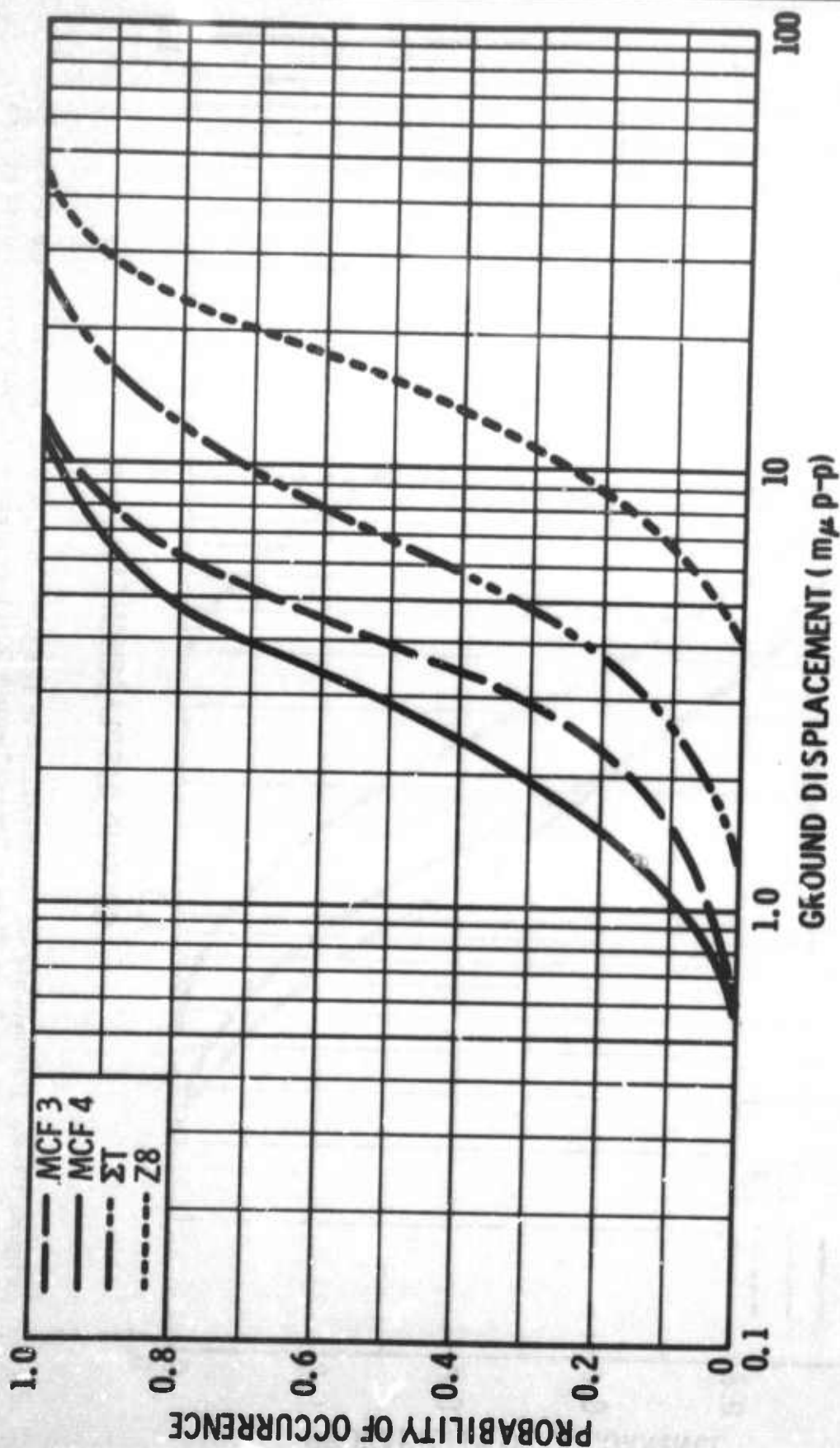


Figure III-3. Probability of Microseisms in the 0.4- to 1.4-sec. Period Range Occurring at or Less Than a Given Ground Displacement at CPSO during January 1967

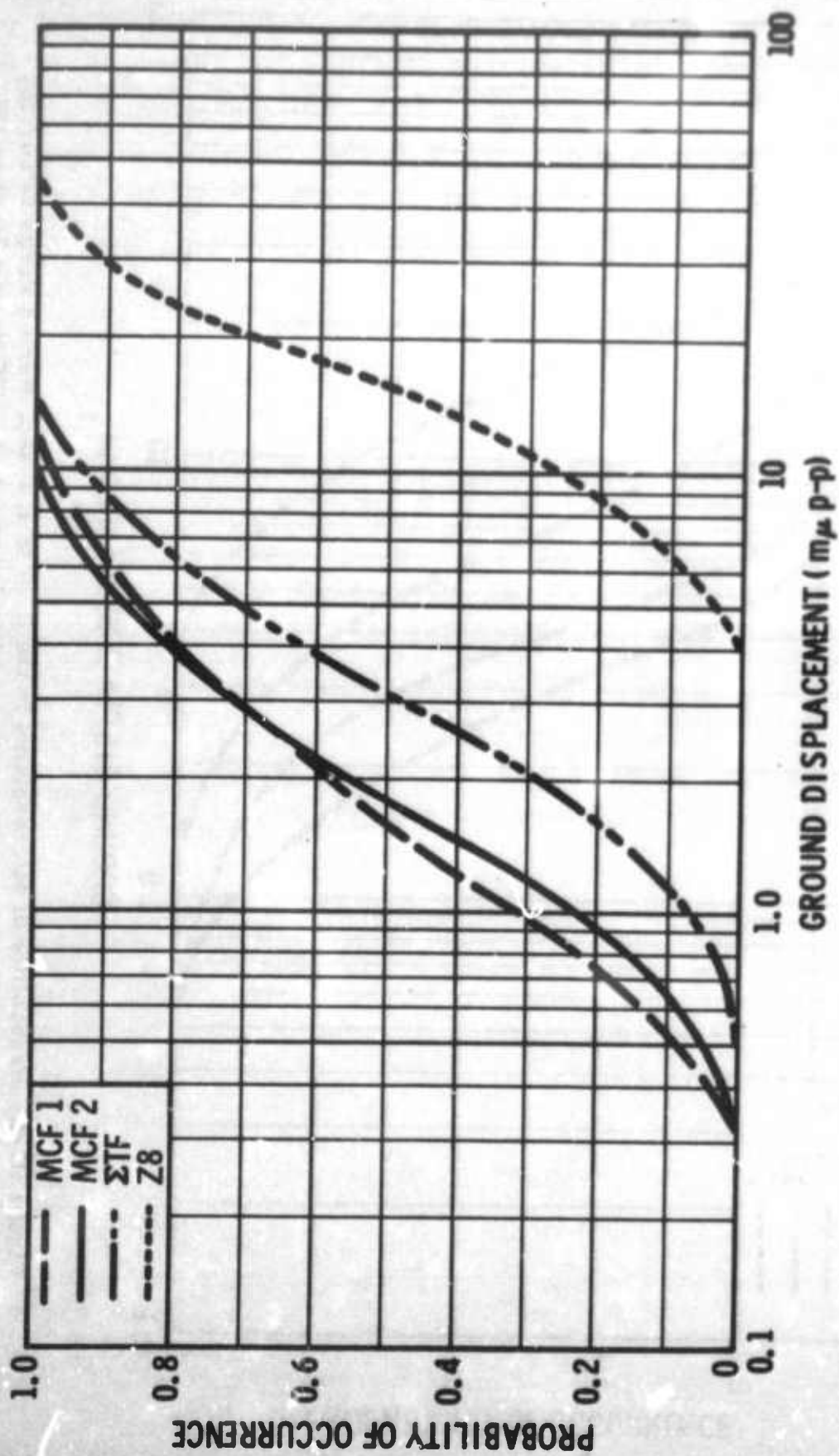


Figure III-4. Probability of Microseisms in the 0.4- to 1.4-sec. Period Range Occurring at or Less Than a Given Ground Displacement at CPSO During January 1967





of teleseismic events using a small diameter array. This evaluation was concerned with determining the feasibility of such processing. In addition, the United Kingdom (UK) outputs of the processor were studied for application to the classification problem.

#### 1. Automatic Detection

During the last quarter, a significant amount of information was gained from the evaluation of on-line automatic detection. This type processing is feasible, and both the Wiener power (square and integration of the MCF outputs) and the Fisher analysis of variance give suitable data to base automatic detection upon. It was determined, however, that implementation of the automatic detection algorithm should be changed for more effective results.

Automatic detection is provided in the present system by comparing a fixed threshold level for signal against the Wiener and Fisher detection outputs. If these outputs exceed the threshold level, a positive voltage is output from the processor. Otherwise, this voltage is zero. Thus, a "yes-no" output is provided which indicates signal or no-signal depending upon a positive or zero voltage (display amplitude), respectively. The outputs are displayed on a Develocorder adjacent to the other MCF-Auxiliary Processor system data.

This automatic detection algorithm thus assumes that the threshold is stationary for a fixed false-alarm rate, or at least that the threshold variance is slow enough so that it may be easily determined and changed on a periodic or known time basis (e.g., for the seasons of the year). Such was not the case at CPO. Figure III-5 presents the threshold value change as a function of time for an approximate fixed false-alarm rate at CPO. From this figure it can be seen that variations in excess of 12 db occurred on a daily basis in the threshold level. These variations were not predictable using the information normally available at the observatory. In addition, the changes in threshold level were sufficiently non-time stationary to preclude effectively utilizing the automatic detectors by manually changing the levels on a daily

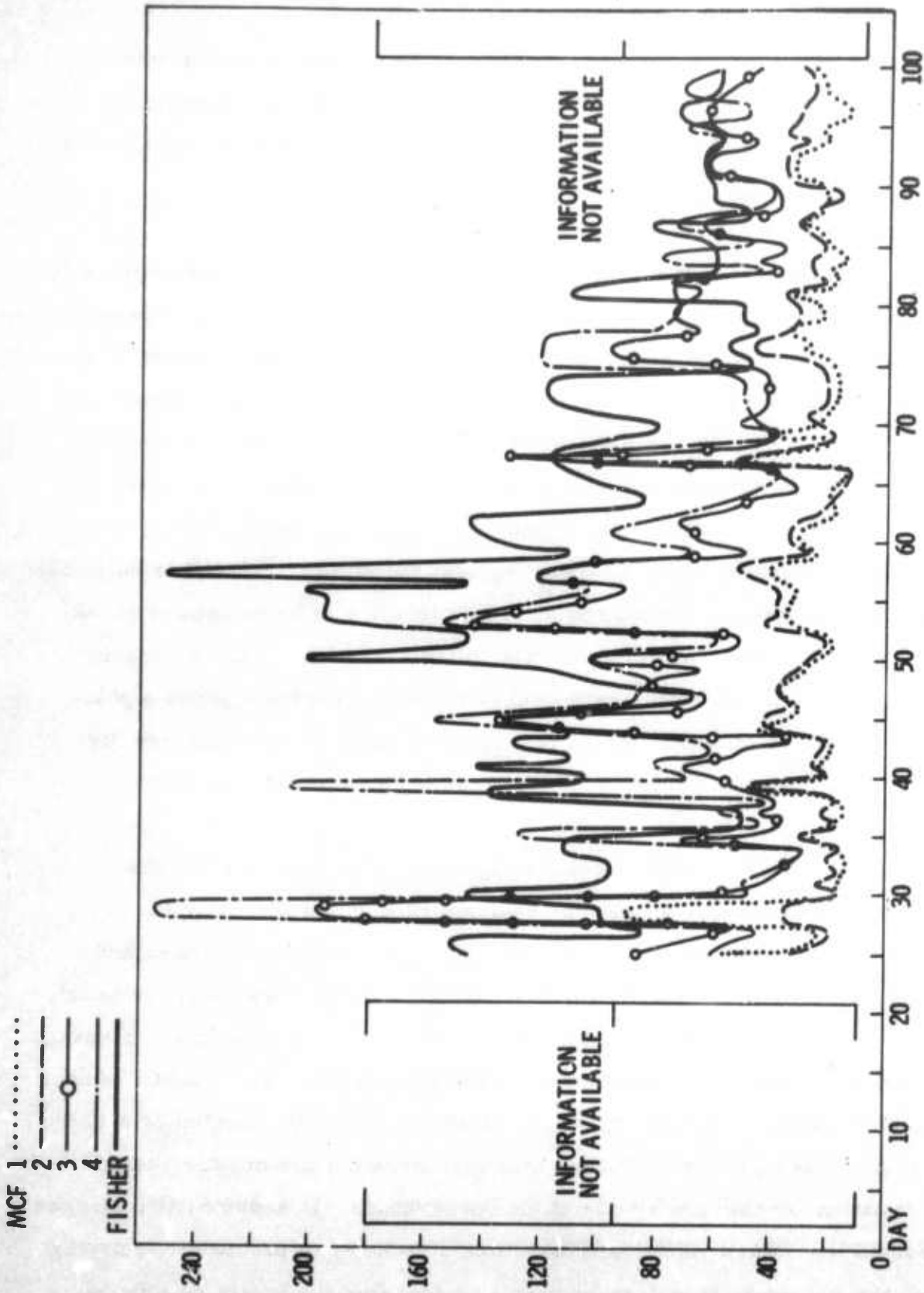


Figure III-5. CPO Daily Threshold Levels



basis.

Based on these results, it was recommended that the threshold level be determined automatically by an adaptive algorithm which adjusts threshold level for a constant known false-alarm rate based upon immediate and past noise statistics. Such an algorithm could be incorporated into the present hardware.

CPO Special Report No. 5 discusses the details of the recommended adaptive algorithm and presents in more detail the results of this evaluation.<sup>2</sup>

## 2. UK Processing

Two UK classification outputs were computed on-line by the Auxiliary Processor during the period 30 December 1966 through 10 April 1967. These outputs were directed toward central Russia and NTS, respectively.

A library of data which could be studied and compared for classification was to be assembled during the last quarter. Special Report No. 5 discusses this study. However, sufficient data were not collected to form the necessary library for event comparison because of several limitations, which are as follows:

- The time period the unit operated on-line was relatively short
- The fixed program system limits the class of signal for study to events from only two geographic regions
- The system dynamic range is limited to 12 bits (72 db) on input, thus clipping large signals
- Develocorder display is limited to 30-40 db visual dynamic range which covers only on a small range of signal amplitudes since the UK computation results in a power type output

## C. OFF-LINE SUPPORTING RESEARCH

Off-line supporting research was directed toward determining optimum parameter specifications for the Auxiliary Processor program and





toward determining in more detail the characteristics of the Fisher analysis of variance computation. All work under this effort was completed during the last quarter. The following paragraphs summarize this effort, and details of the research are presented in CPO Special Report No. 5.

### 1. Parameter Specifications

Two critical parameters for the Wiener power and Fisher analysis of variance detection processes were determined. These were the optimum gate length of integration for CPO and the optimum prefiltering required for the Fisher input data for CPO.

The optimum gate length is one which equals the initial P-wave pulse length. A study of P-waves from 57 teleseisms showed the mean P-wave duration to be 2.90 sec and the variance to be 1.90 sec. The gate length of computation for the Fisher, Wiener power and UK processes were subsequently changed from 2.0 to 3.0 sec.

Prefiltering (low-cut frequency filtering) of the Fisher input data is necessary in order to remove highly correlated microseismic energy and thus approximate the assumption that input noise energy is spatially uncorrelated. Determination of the optimum corner frequency must take into consideration the trade-off between reduction in Fisher noise distribution and enhancement in signal energy. The optimum corner frequency for reduction in noise distribution was determined to lie between 0.75 and 1.0 cps (Figure III-6). It was also determined that for CPO the primary P-wave frequency was between 0.68 and 0.82 cps. The corner frequency was subsequently set at 0.75 cps, which yielded an optimum trade-off between the two variables.

### 2. Applied Research

Effect of the Fisher analysis of variance computation upon signal and noise was studied. Study of signal response properties involved measuring the Fisher output values for various simulated signals which ranged from 8 km/sec to infinite apparent horizontal velocity. Fisher peak output was seen to vary 12 db over this velocity range, while a maximum signal variation of 7 db could be expected for the MCF outputs. The response to signal over this velo-

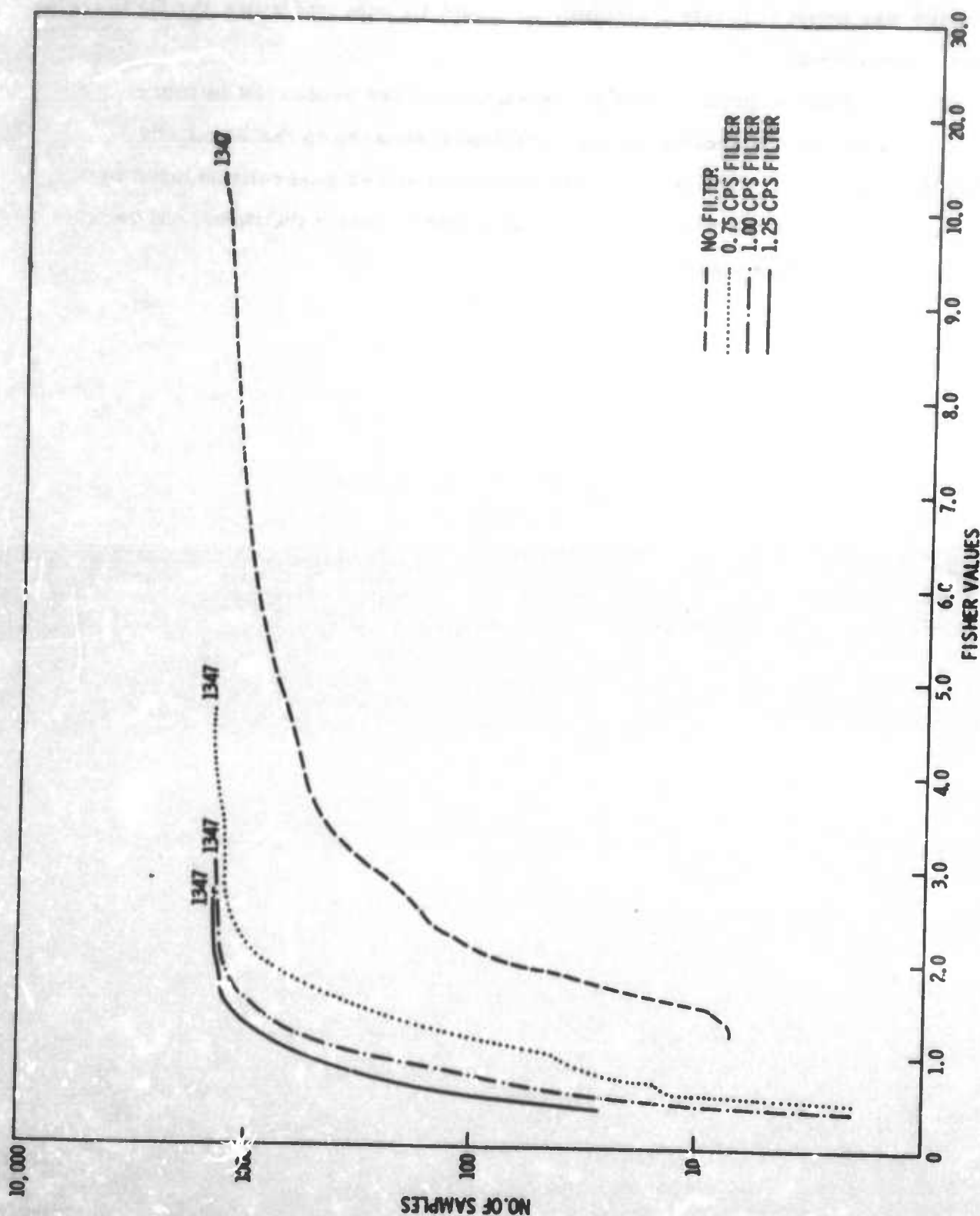


Figure III-6. Cumulative Distribution for Fisher Statistics for Theoretical Noise Sample Using No Filter, 0.75-, 1.0-, and 1.25-cps Low-Cut Filters



city range was approximately isotropic, as might be expected since the CPO array is symmetric.

Four representative noise samples were processed to more clearly identify the threshold variation problem discussed in the Auxiliary Processor evaluation. The output noise distribution was generally related to the input noise power density spectra but attempts to relate the threshold variation to a direct cause were unsuccessful.



## SECTION IV

### CPO TRANSFER

During April 1967, accountability for the CPO facility and all associated inventoriable and expendable equipment and supplies were transferred from Texas Instruments Incorporated (Contracts AF 33(657)-14648 and AF 33(657)-14739) to other AFTAC/VELA contracts and the USC&GS at the direction of the Purchasing and Contracting Office (PCO), Aeronautical Systems Division, Wright-Patterson AFB, Ohio. This section documents the details of this transfer.

#### A. GENERAL

On 30 April 1967, accountability for the CPO facility and certain of the associated inventoriable and expendable equipment and supplies were transferred to the USC&GS. Prior to the transfer, station personnel worked closely with Leonard Kerry, the newly assigned USC&GS station manager who arrived at CPO on 7 April 1967, in coordinating all aspects of the transfer.

Formal responsibility for the observatory operation was given to USC&GS at midnight, 30 April 1967. The TI observatory staff remained on-site the next day to complete all analysis up to this time. After that the TI station manager remained on-site through 15 May 1967 to give assistance as required and to close out all outstanding accounts (i. e., telephone, electricity, etc.).

At the time the TI station manager left CPO all outstanding accounts had been closed and paid. It was reported that USC&GS personnel were well satisfied with results of the transfer and the general operating conditions of the observatory. They indicated they were experiencing no difficulties at that time.

#### B. FACILITIES AND EQUIPMENT TRANSFER

##### 1. Accountable Property and Equipment

All accountable property and equipment were transferred accord-





ing to instructions provided by the contract PCO in a letter dated 16 March 1967, subject Transfer of Cumberland Plateau Seismological Observatory to Coast and Geodetic Survey. Transfer was made to USC&GS and other AFTAC/VELA contracts as follows:

<u>Receiving Responsibility</u>	<u>Shipped To</u>	<u>Date</u>	<u>Itemized List</u>
USC&GS	--	30 April	Appendix A (Facilities)
USC&GS	-	30 April	Appendix B (Equipment)
USC&GS	-	30 April	Appendix C (Hand Tools)
F 33(657)-67-C-0091	TFO	25 April	Appendix D (Equipment)
AF 33(657)-15919	SDL	25 April	Appendix E (Equipment)
F 33(657)-C-0655	WMO	26 April	Appendix F (Equipment)
AF 33(657)-13668	Geotechnical Corporation	25 April	Appendix G (Equipment)
AF 33(657)-16563	UBO	25 April	Appendix H (Equipment)
AF 33(657)-16563	WMO	26 April	Appendix I (Equipment)
USC&GS	-	30 April	Appendix J (Spare Parts and Residual Equipment)

All equipment requiring shipment was adequately packed by the McMinville Moving and Storage Company to withstand normal surface shipment handling. In the case of the MCF-Auxiliary Processor system (Appendix I), the units were packed in special crates which had been used to initially ship the equipment to CPO. All shipments were made using Government Bills of Lading (GBL).

As indicated in Appendix I, all supporting spare parts and residual material for the MCF-Auxiliary Processor system were transferred with the system to WMO.

## 2. Expendable Equipment and Supplies

All observatory expendable equipment and supplies were transferred to USC&GS except for the MCF-Auxiliary Processor system spare parts and residual equipment. A list of this equipment is provided in Appendix





J. Miscellaneous items such as housekeeping supplies, office supplies and observatory forms, were transferred in total and were not itemized. Observatory forms such as analysis sheets, calibration logs, etc., available in the TI Dallas Forms Control Section were shipped to the observatory in April.

#### C. SUPPLY LEVELS AND OPERATING CONFIGURATION

In accordance with Contract AF 33(657)-14648, at least a 3-month level of operating supplies was transferred to USC&GS. This included such items as Develocorder film, developer and film. Detailed quantities of these supplies are listed in Appendix J. As mentioned, all available observatory forms were shipped to CPO. The supply was in excess of the 3-month requirement.

An adequate spare part assortment for the data collection and recording equipment was transferred according to the list in Appendix J. Also, adequate housekeeping and operational supplies were left with the observatory.

The general maintenance configuration of the observatory was good at the time of the transfer. All equipment and facilities were operating properly. As mentioned in Section II, emphasis was placed on completing all preventative and remedial maintenance during March and April to insure that the observatory would be in good condition at the time of transfer.



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SECTION V  
REFERENCES

1. Texas Instruments Incorporated, 1967: Evaluation of the CPO Multichannel Filter Processor, CPO Spec. Rpt. No. 4, Contract AF 33(657)-14648, 30 June.
2. Texas Instruments Incorporated, 1967: Evaluation of the CPO Auxiliary Processor, CPO Spec. Rpt. No. 5, Contract AF 33(657)-14648, 30 June.
3. Texas Instruments Incorporated, 1966, Cumberland Plateau Observatory, Quarterly Rpt. 5, Contract AF 33(657)-14648, 9 Nov.
4. Texas Instruments Incorporated, 1967: Cumberland Plateau Observatory, Quarterly Rpt. 6, Contract AF 33(657)-14648, 15 Feb.
5. Texas Instruments Incorporated, 1966: Cumberland Plateau Observatory, Quarterly Rpt. 3, Contract AF 33(657)-14648, 29 Mar.
6. Texas Instruments Incorporated, 1966: Cumberland Plateau Seismological Observatory Annual Rpt. 1, Contract AF 33(657) -14648, 15 Sept.

APPENDIX A

FACILITIES



REQUISITION AND INVOICE/SHIPPING DOCUMENT

TEXAS INSTRUMENTS INCORPORATED, SCIENCE SERVICES DIVISION  
5310 MAPLE AVENUE, DALLAS, TEXAS  
COAST AND GEODETIC SURVEY

SHIP TO - NAME FOR

1. SHEET NO. OF SHEETS: 13  
2. REQUISITION DATE: 1 MAY 1967  
3. DATE MATERIAL REQUIRED: 1 MAY 1967  
4. AUTHORITY OR PURPOSE: AFTAC/VELA LETTER DATED 16 MARCH  
5. SIGNATURE: E. E. LEWIS  
6. VOUCHER NUMBER AND DATE: 57049-C-501  
7. DATE SHIPPED: 24 APRIL 1967  
8. MODE OF SHIPMENT: 14. BILL OF LADING NUMBER  
9. AIR MOVEMENT DESIGNATOR ON PORT REFERENCE NUMBER

ACCOUNTING AND PACKING DATA

THIS DOCUMENT PREPARED AS AN IN PLACE TRANSFER OF CONTRACT AF33(657)14739, PROJECT 57049, TO COAST AND GEODETIC SURVEY

ITEM NO.	STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY POSITION	UNIT PRICE	TOTAL COST
1	BASKETS, WASTE	6	EA	\$ 4.50	\$ 27.00
2	BINS, STORAGE	25	EA	NA	584.24
3	BOARD, CHALK	1	EA	9.00	9.00
4	BUILDING, METALLIC, 57009-13	1	EA	89567.08	89567.08
5	BUILDING, METALLIC, UTILITY, 57009-6	1	EA	3771.54	3771.54
6	CABINETS, 4 DRAWER, LEGAL	1	EA	136.69	136.69
7	CABINETS, 5 DRAWER, LETTER	1	EA	107.63	107.63
8	CALCULATOR, MONPOE, 57009-24	1	EA	408.10	408.10
9	CHAIRS, FORMED STEEL BASE	2	EA	42.58	84.76
10	CHAIRS, STRAIGHT, WITHOUT ARMS	6	EA	25.31	151.86
11	CHAIR, STRAIGHT, WITH ARMS	1	EA	38.63	38.63
12	CHAIR, SWIVEL	1	EA	52.69	52.69
13	CHAIRS, SWIVEL, WITHOUT ARMS	2	EA	57.38	114.76
14	CHAIR, SWIVEL, WITH ARMS	1	EA	69.00	69.00
15	COAT RACK	1	EA	26.22	26.22

16. ISSUED BY: [Signature]  
17. CONTAINERS RECEIVED EXCEPT AS NOTED: [Signature]  
18. QUANTITIES RECEIVED EXCEPT AS NOTED: [Signature]  
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NO.	DATE	REQUISITION NO.	REQUISITION NUMBER
1324	11/11/54	1324	1324
1325	11/11/54	1325	1325
1326	11/11/54	1326	1326
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1328	11/11/54	1328	1328
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#### 4- ACCOUNTING AND FUNDED DATA

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SHIPPING CONTAINER VALLY

# REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. DATE OF ORDER		2. QUANTITY		3. UNIT		4. TOTAL	
3		3		3		3	
5. AUTHORITY OR PURPOSE				6. PRIORITY			
7. DATE MATERIAL REQUIRED				8. REQUISITION NUMBER			
9. DATE SHIPPED				10. BILL OF LADING NUMBER			
11. VEHICLE NUMBER AND DATE				12. VEHICLE NUMBER AND DATE			
13. DATE OF SHIPMENT				14. DATE OF LADING NUMBER			
15. AIR MOVEMENT DESIGNATION OR PORT REFERENCE NUMBER							

ACCOUNTING AND FURNISHING DATA

ITEM NO.	QUANTITY REQUESTED	SUPPLY ACTION	CON. INVENTORY NO.	UNIT PRICE	TOTAL COST
31	EA		NA	58.13	58.13
32	EA		NA	141.75	141.75
33	EA		NA	199.68	199.68
34	EA		NA	206.83	7032.22
35	EA		NA	95.00	95.00
36	EA		NA	359.00	359.00
37	EA		NA		

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APPENDIX B

EQUIPMENT



SHIPPING CONTAINER TALLY

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1 FROM. TEXAS INSTRUMENTS INCORPORATED, SCIENCE SERVICES DIVISION,  
5919 MAPLE AVENUE, DALLAS, TEXAS  
2 TO COAST AND GEODETIC SURVEY

3. SHIP TO-MARK FOR

4. ACCOUNTING AND FUNCTIONING DATA

TRANSFER OF ACCOUNTABILITY OF CONTRACT AF33(657)14648, PROJECT 57045, TO COAST AND GEODETIC SURVEY

FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES		QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
THE FOLLOWING GEOTECH EQUIPMENT					
1	SEISMOMETERS	20	NA	\$ 807.02	\$16140.40
2	SHORT-PERIOD, 6480	1	NA	858.38	858.38
3	SHORT-PERIOD, 1051	2	NA	957.02	1915.84
4	SHORT-PERIOD, 7515	1	NA	922.63	922.63
5	LONG-PERIOD, 7505	2	NA	919.88	1839.76
6	LONG-PERIOD, 8700A	21	NA	577.86	12295.06
PHOTOTUBE, W/213 GALVO, 4300					
AMPLIFIERS					
7	W/8530 GALVO, 5240A	3	NA	1456.26	4368.78
8	W/112 GALVO, 4300	3	NA	537.86	1612.58
9	PTA FILTERS, 6824-2	1	NA	456.00	456.00
10	PTA FILTER, 6824-4	1	NA		

16. TRANSPORTATION VIA MAYS  
ON MTS CHARGEABLE TO

17. HANDLING

18. RECEIPT

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## REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. FROM.	2. TO	3. SHIP TO-MARK FOR	4. ACCOUNTING AND FUNDING DATA
1. NO. OF SHEETS 8		2. DATE MATERIAL REQUIRED	3. AUTHORITY OR PURPOSE
11. VOUCHER NUMBER AND DATE 57 5-600 - C		12. DATE SHIPPED	13. MODE OF SHIPMENT
14. BILL OF LADING NUMBER		15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER	

FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
PTA FILTERS, 6824-1	1	NA	\$ 57.60	\$ 57.60
PTA POWER SUPPLY, 4304	27	NA	310.00	8370.00
PTA GALVO, 4100	4	NA	150.00	600.00
DATA CONTROL AND PROTECTION EQUIPMENT				
DATA LINE MODULES, 5874A	26	NA	53.46	1649.96
DATA LINE MODULES, 5874C	2	NA	46.16	92.32
DATA LINE MODULES, 8979A	3	NA	63.46	190.38
CONTROL MODULES, 5792	9	NA	49.50	445.50
CONTROL MODULES, 5792B	21	NA	56.95	1195.95
CONTROL MODULES, 5792D	2	NA	67.04	134.08
DATA FILTER, 12025	1	NA	200.00	200.00
DATA CONTROL FRAMES, 5791	4	NA	33.78	135.12
VAULT PROTECTORS, 8399	2	NA	185.92	371.84
STATION PROTECTORS, 7148	2	NA	167.52	325.04
SIGNAL ISOLATORS, 6722A	3	NA	1083.95	2167.90

16. TRANSPORTATION VIA WAYS ON MTS CHARGEABLE TO	17. SPECIAL HANDLING	18. RECEIPT	19. SHEET TOTAL
ISSUED BY	CONTAINERS RECEIVED EXCEPT AS NOTED	DATE	BY
CHECKED BY	QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY
PACKED BY	POSTED	DATE	BY
TOTAL		GRAND TOTAL	

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SHIPPING CONTAINER TALLY

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REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. FROM	3	8	7. DATE MATERIAL REQUIRED	8. PRIORITY
2. TO	9. AUTHORITY OR PURPOSE			
3. SHIP TO-MARK FOR	10. SIGNATURE			
	11. VOUCHER NUMBER AND DATE 57045-600 - C			
	12. DATE SHIPPED			
	13. MODE OF SHIPMENT			
	14. BILL OF LADING NUMBER			
15. AIR MOVEMENT DESIGNATION OR POST REFERENCE NUMBER				

4. ACCOUNTING AND FUNDING DATA

FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
VAULT TERMINALS, 11875	EA 19	NA	\$ 35.81	\$ 680.39
VAULT TERMINALS, 8365	EA 2	NA	35.00	70.00
STATION TERMINALS, 7842	EA 2	NA	61.36	122.72
DATA LINE TERMINALS, 7149	EA 4	NA	175.44	701.76
VISUAL DISPLAY EQUIPMENT				
HELICORDER, 2484-1	EA 1	NA	1025.67	1025.67
HELICORDER, 2484-3	EA 1	NA	1025.67	1025.67
HELICORDER AMPLIFIER, 4983	EA 4	NA	137.44	549.76
FILM VIEWER, 6585	EA 1	NA	1552.50	1552.50
DEVELOCORDERS, 4006	EA 2	NA	3022.79	6045.58
DEVELOCORDER GALVOS, 4915-10	EA 2	NA	150.00	300.00
DEVELOCORDER GALVOS, 4915-16	EA 9	NA	85.00	765.00
DEVELOCORDER CONSOLE, 6484	EA 2	NA	130.44	260.88
DEVEL TIMING UNIT, 14487	EA 1	NA	250.00	250.00
DEVEL SWITCHING UNIT, 5970	EA 1	NA	223.15	223.15

16. TRANSPORTATION VIA DAYS ON LISTS CHARGEABLE TO	17. SPECIAL HANDLING	18. RECEIPT
ISSUED BY	CONTAINERS EXCEPT AS NOTED	DATE
CHECKED BY	QUANTITIES RECEIVED EXCEPT AS NOTED	DATE
PACKED BY	POSTED	DATE
TOTAL CONTAINERS		TOTAL WEIGHT
TOTAL CUBE		TOTAL
DESCRIPTION		RECEIVER'S VOUCHER NO



REQUISITION AND INVOICE/SHIPPING DOCUMENT

1 FROM		4		SHEET NO. OF SHEETS 3X 8		S. REQUISITION DATE		S. REQUISITION NO.	
2 TO				7 DATE MATERIAL REQUIRED		8. PRIORITY			
3. SHIP TO-MARK FOR				9. AUTHORITY OR PURPOSE		11. VOUCHER NUMBER AND DATE 57045-600 - C		12. VOUCHER NUMBER AND DATE	
				10. SIGNATURE		13. DATE SHIPPED		14 BILL OF LADING NUMBER	
				15. MODE OF SHIPMENT		16. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER			
4. AC COUNTING AND FUNDING DATA									

FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
LEVEL SWITCHING UNIT, 18162	1	NA	\$ 223.15	\$ 223.15
DEVEL CODING UNIT, 6281	2	NA	578.17	1156.34
TAPE RECORDERS				
MAGNETIC, HONEYWELL, 7360	2	NA	25276.00	50552.00
TIMING SYSTEM				
BASIC UNIT, 11880	1	NA	931.28	931.28
CONTROL UNIT, 7136	1	NA	177.64	177.64
ENCODER, 13159	1	NA	2825.00	2825.00
MARK UNIT, 13495	1	NA	100.00	100.00
SYNCH CLOCK, ABNEY, SHC130	1	NA	215.00	215.00
PROGRAMMER, 11365	1	NA	1809.18	1809.18

16. TRANSPORTATION VIA MAYS ON MTS CHARGEABLE TO		17. SPECIAL HANDLING	
ISSUED BY	TOTAL CONTAINERS	CONTAINERS RECEIVED EXCEPT AS NOTED	DATE
CHECKED BY		QUANTITIES RECEIVED EXCEPT AS NOTED	DATE
PACKER BY		POSTED	DATE
TOTAL		TOTAL	
RECAPITULATION OF SHIPMENT		RECEIPT	
TOTAL WEIGHT		TOTAL CUBIC	
TOTAL CONTAINERS		TOTAL	

SHIPPING CONTAINER TALLY

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REQUISITION AND INVOICE/SHIPPING DOCUMENT

SHEET NO. OF 8 REQUISITION DATE 6. REQUISITION NO

1 FROM. 5 8 7 DATE MATERIEL REQUIRED 8. PRIORITY

2 TO 9. AUTHORITY OR PURPOSE

3 SHIP TO-MARK FOR 10. SIGNATURE 11. VOUCHER NUMBER AND DATE 57045-600 - C

12. DATE SHIPPED 12. VOUCHER NUMBER AND DATE

13. MODE OF SHIPMENT 14. BILL OF LADING NUMBER

15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER

4. ACCOUNTING AND FUNDING DATA

FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
CALIBRATION SYSTEM				
CALIBRATOR, 9212	1	NA	\$ 342.76	\$ 342.76
CAL CONTROL UNIT, 9300	2	NA	521.04	1042.08
CAL CONTROL UNIT, 9228	1	NA	521.04	521.04
CAL SWITCHING UNIT, 3048	1	NA	81.69	81.69
FUNCTION GENERATOR, HEWLETT PACKARD, 202AR	1	NA	535.00	535.00
TUNING FORK OSC, PH10541	2	NA	30.55	61.10
FREQ. COUNTER, GENERAL RADIO, 1151AR	1	NA	1195.00	1195.00
POWER SYSTEM				
POWER AMPLIFIER, 9231	3	NA	188.97	566.91
POWER CONTROL UNIT, 7679	1	NA	170.14	170.14
AC VOLTAGE REG, GENERAL RADIO, 1570ALR	1	NA	530.00	530.00
AC VOLTAGE REG, BECKMAN, 760R	1	NA	530.00	530.00
AC CV TRANSFORMER, SOLA, 2325220	1	NA	245.00	245.00
REHOTE POWER CONT, 11901	1	NA	165.53	165.53
16. TRANSPORTATION VIA MAYS ON MTS CHARGEABLE TO				
17. SPECIAL HANDLING				
18. CONTAINERS RECEIVED EXCEPT AS NOTED				
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3. SHIP TO-MARK FOR

4. ACCOUNTING AND FUNDING DATA

5. FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES

6. QUANTITY REQUESTED

7. DATE MATERIAL REQUIRED

8. PRIORITY

9. AUTHORITY OR PURPOSE

10. SIGNATURE

11. VOUCHER NUMBER AND DATE

12. DATE SHIPPED

13. MODE OF SHIPMENT

14. BILL OF LADING NUMBER

15. AIR MOVEMENT DESIGNATION OR PORT REFERENCE NUMBER

QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
1	NA	25.00	25.00
1	NA	300.53	300.53
1	NA	109.25	109.25
2	NA	371.50	743.00
1	NA	965.50	965.50
1	NA	141.52	141.52
2	NA	81.00	162.00
1	NA	131.00	131.00
1	NA	825.00	825.00
1	NA	825.00	825.00
1	NA	54.50	54.50
1	NA	36.80	36.80
1	NA	43.50	43.50
1	NA	59.65	59.65

16. TRANSPORTATION VIA MAYS

17. SPECIAL HANDLING

18. RECEIPT

19. RECAPITULATION

20. RECEIVER'S VOUCHER NO

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

SHEET NO.	NO. OF SHEETS	5. REQUISITION DATE	6. REQUISITION NO

1. FROM.	7. DATE MATERIAL REQUIRED	8. PRIORITY
2. TO	9. AUTHORITY OR PURPOSE	
3. SHIP TO-MARK FOR	10. SIGNATURE	11. VOUCHER NUMBER AND DATE 57045-600 - C
	12. DATE SHIPPED	12. VOUCHER NUMBER AND DATE
	13. MODE OF SHIPMENT	14. BILL OF LADING NUMBER
	15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER	

#### 4. ACCOUNTING AND FUNDING DATA

10 11 12	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	QUANTITY REQUESTED d	SUPPLY ACTION e	UNIT PRICE f	TOTAL COST g
75	MEGOhMMETER, A PESEARCH, 201	EA	1		\$ 136.50	\$ 136.50
76	MICROVGLTAMETER, HEWLETT PACKARD, 425A	EA	1		500.00	500.00
77	MICROMETER, CAL, 8205	EA	1		62.00	62.00
78	MAG TAPE DEGAUSS, AMPEX, 111	EA	1		85.00	85.00
79	METER, TRIPLETT, 327T	EA	1		32.70	32.70
80	<u>RADIO EQUIPMENT</u>	EA	1		1056.00	1056.00
81	RECEIVER, COLLINS, 51J4	EA	1		80.56	80.56
82	RADIO CONTROL, 11230	EA	1		127.90	127.90
83	RADIO T.S. CONVERTER, 5390	EA	2		169.00	338.00
84	TRANSCIEIVER, CADRE, 500	EA	1		60.00	60.00
85	TRANSCIEIVER, HEATHKIT, CW21	EA	1		149.25	149.25
85	TRANSCIEIVER, JOHNSON	EA	1			

16. TRANSPORTATION VIA WAYS ON MSTs CHARGEABLE TO									
18.				17. SPECIAL HANDLING			19.		
ISSUED BY	TOTAL CONTAINERS	TYPE CON- TAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	CONTAINERS RECEIVED EXCEPT AS NOTED	DATE	BY	SHEET TOTAL
CHECKED BY						QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	GRAND TOTAL
PACKED BY							DATE	BY	20 RECEIVER'S VOUCHER NO
TOTAL						POSTED			

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1 FROM		8		SHEET NO. OF SHEETS		8		SHEET NO. OF REQUISITION DATE		8		REQUISITION NO		8	
2 TO				7 DATE MATERIAL REQUIRED				8 PRIORITY							
3 SHIP TO-MARK FOR				9 AUTHORITY OR PURPOSE				116 VOUCHER NUMBER AND DATE		57045-600 - C					
				12 DATE SHIPPED				9 VOUCHER NUMBER AND DATE							
				13 MODE OF SHIPMENT				14 BILL OF LADING NUMBER							
				15 AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER											
4 ACCOUNTING AND FUNDING DATA															

FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES				QUANTITY REQUESTED	SUPPLY ACTION	CONTAINER CODE	UNIT PRICE	TOTAL COST
36	MISCELLANEOUS			4		NA	\$ 52.50	\$ 210.00
37	HASS POS MONITOR			1		NA	87.72	87.72
38	HP REMOTE C UNIT, 10075			2		NA	87.72	175.44
39	MP REMOTE C UNIT, 10076			3		NA	40.18	120.54
40	MAGNET ASSEMBLY, 10087			15		NA	21.44	321.60
41	COIL ASSEMBLY			1		NA	100.00	100.00
42	WIND INDICATOR, 18515			1		NA	90.00	90.00
43	OPERATING CONSOLE, 8372A			1		NA	90.20	90.20
44	HASS POS DISPLAY, 11003			1		NA	49.95	49.95
45	RECORD THEMOMETER, EDMUND, 7013			1		NA	29.37	29.37
46	SAW, SADER, VEN, 909			1		NA	29.37	29.37
47	ANTENNA, HIGH GAIN, CLR			1		NA	40.00	40.00
48	RUFFER, ELECTRIC, FLOOR			1		NA	35.96	35.96
49	VACUUM CLEANER			1		NA		

16 TRANSPORTATION VIA TRAYS		17 SPECIAL HANDLING	
ON MTS CHARGEABLE TO		CONTAINERS DATE BY	
ISSUED BY		SHEET TOTAL	
CHECKED BY		DATE BY	
PACKED BY		GRAND TOTAL	
TOTAL		DATE BY	
TOTAL		20 RECEIVER'S VOUCHER NO	



APPENDIX C

HAND TOOLS

SHIPPING CONTAINER TALLY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. FROM: TEXAS INSTRUMENTS INCORPORATED SCIENCE SERVICE DIVISION

2. TO: COAST AND GEOGETIC SURVEY

3. SHIP TO: MARK FOR

7. DATE MATERIAL REQUIRED: 1 MAY 1967

8. AUTHORITY OR PURPOSE: AFTAC/VELA LETTER DATED 16 MARCH 1967

10. SIGNATURE: E. E. LEWIS

11. VOUCHER NUMBER AND DATE: 57045-C 607

12. DATE SHIPPED: 24 APRIL 1967

13. MODE OF SHIPMENT: 14. BILL OF LADING NUMBER

15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER

TRANSFER OF ACCOUNTABILITY OF CONTRACT AF33(657)14648, PROJECT 57045, TO COAST AND GEOGETIC

ITEM NO.	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	CONTRACT NUMBER	UNIT PRICE	TOTAL COST
1	HAND TOOLS (SEE ATTACHED LIST)					

TRANSPORTATION VIA U.S. MAIL

16. ISSUED BY: 17. SPECIAL HANDLING: 18. CONTAINERS: 19. RECEIPT: 20. RECEIVER'S VOUCHER NO.

DD FORM 1149, 1 MAR 59

REPLACES EDITION OF 1 MAY 55 WHICH MAY BE USED.



QTY	DESCRIPTION	COST
1	#32 HAND AXE STANLEY	3.81
1	CLAW HAMMER	
2	TOOL BOX # 5419	4.25
2	CALIPER #721	1.28
1	CRIMP TOOL #1900	3.87
1	DIAGONAL #2025SW	2.50
1	SKILL MOTOR DRILL #560	24.47
1	EXTRACTOR SET #18451	3.96
1	FLARING TOOL # 1225F	10.10
1	SLEDGE HAMMER	5.28
3	HAMMER STANLEY 3078	2.10
2	MICROMETER ACE	3.38
1	INSERTION TOOL TT16GI	20.00
1	LADDER STEP 6 FT	8.42
1	MOTO TOOL # 222	20.53
1	PICK	3.88
2	PLIERS CG1801 (KRAUTER)	2.45
2	PLIERS KLEIN # 156	1.38
2	PLIERS CG710-10	2.33
2	LONGNOSE PLIERS (301-6)	1.18
2	PLIERS VISE-GRIP 7R	1.43
1	POSTHOLE AUGER	5.67
1	SOLDERING IRON T-30	14.30
2	HACKSAW FRAME STANLEY H1265	1.67
1	HANDSAW-7 DISSTON	5.50
1	TAPE MEASURE 50' K&E	2.00
2	FLASHLIGHT	1.13

QTY	DESCRIPTION	COST
2	TAPE MEASURE LUFKIN H0255	4.67
3	SHOVEL LONG HANDLE	2.87
1	SHOVEL SHORT HANDLE	2.50
1	SPINTITE XELITE # 127	5.97 SET
1	SQUARE COMBINATION STANLEY # 22	2.67
3	WIRE STRIPPER #100	.89
	FIGURE SET 9-1571	3.10
1	LETTER SET 9-1572 1/8 "	3.10
1	VISE WILTON # 440	15.93
4	WRENCH RACHET	1.39
4	WRENCH ADJUSTABLE 6"	1.76
1	WRENCH WILLIAMS ADJUSTABLE 10"	2.53
1	WRENCH PIPE 14"	2.50
1	WRENCH PIPE 10"	1.75
2	WRENCH SET 0729	10.00
1	WRENCH SOCKET SET 7701	11.00
1	DIAGONEL 36017	2.55
1	TAP WRENCH	
1	LONGNOSE OFFSET PLIERS #3026	2.57
1	WRENCH SET #915	5.00
1	WRENCH SET (SET OF 3)	1.75
3	SCISSORS XELA 2100-5	.50
1	BRUSH HOOKS	5.00
1	MIRROR 34F443	1.05
1	DRIVE PUNCH SET STARRETT	3.75
1	PUNCH SET OF 10 (3 MISSING)	4.72

QTY	DESCRIPTION	COST
2	OFFSET SCREWDRIVER SET	.40
1	KNOCKOUT PUNCH SET	10.00
2	STEEL BRUSHES	1.50
2	DRILL INDEX	1.84
2	HAMMER PLASTIC TIP	3.40
14	SCREWDRIVERS ASSORTMENT	1.70
4	LEVELS	1.96
1	FILE SET	1.00
1	OFFSET SCREWDRIVER RATCHET	1.20
1	HANDSAW	5.50
1	CRIMPER & STRIPPER	1.25
1	FEELEER GAUGE	1.00
1	RESISTANCE DECADE BOX ARD-15	12.75
1	RESISTANCE DECADE BOX ARD-31	12.75
1	LANTERN BERTZ-O-MATIC T4-700	14.95
1	SLIDE RULE # 4081-35 12"	22.50
1	SPLICER MICROFILM	14.00
1	COMPUTER	15.00
2	CAPACITOR BOXES	15.00
2	CABLES HEATER	4.53
1	HYDROMETER & LEVEL TESTER	1.53
1	EAGLE PUMP OILER	1.54
1	REEL HOLDER	10.00
1	TRUCK MOUNTED HOIST	30.00
2	LEVELING LEGS SEIS	1.30
1	CARRING HAWKLE FOR JM SEIS	1.75
1	BOW, DROP PEN 813R	11.00

QTY	DESCRIPTION	COST
1	RAPIDOGRAPH PEN SET	19.75
1	STRAIGHT EDGE	17.20
2	TAPE DISPENSER	2.50
1	PERCULATOR COFFEE	19.95
1	BOOK (DICTIONARY)	6.00
1	BOOK PIT & QUARRY DICTIONARY	20.00
1	BOOK STRATOGRAPHY OF CENTRAL TENN.	6.50
1	BOOK TABLE FOR SINES & COSINES	3.75
1	COMPASS REON K&E	13.50
2	POCKET THERMOMETER	5.39
2	2 HOLE PAPER PUNCH	4.75
2	PENCIL SHARPENER	1.50
1	METRIC SCALE SMALL	2.00
2	METRIC SCALE LARGE	6.50
1	TRIANGLE 1852-12 12"	3.15
1	TRIANGLE 1852-8 8"	1.60
1	TRIANGLE 1851-12 12"	2.20
1	TRIANGLE 1852-18 18"	7.25
1	TRIANGLE 1851-8 8"	1.00
1	FRENCH CURVE 1860-27	2.10
1	FRENCH CURVE 1860-19	1.50
1	FRENCH CURVE 12152-G	.80
4	SHIPS CURVE	1.00
1	PROTRACTOR # 1273-10	3.00
3	STAPLERS BOSTIC	1.00
2	32 DRAWER SMALL PARTS FILING CABINET	6.00
2	POSTAGE SCALE	5.00
1	PAPER PUNCH 3 RING	5.98



QTY	DESCRIPTION	COST
1	FIRST AID KIT	2.50
2	IGLOO WATER COLLERS	5.00
1	TRIANGULAR SCALE #	7.90
1	1631P K&E	
1	MOPBUCKET W/ CASTERS	14.54
1	AND WRINGER	
1	BAROMETER	12.00
2	DRAFTING BRUSHES	.59
1	PRESSURE GAUGE	2.50
1	HEAD DEGAUSSER	6.00
1	AC AMMETER	15.00
1	VARIABLE TRANSFORMER	24.00
1	HONEYWELL MANUAL	25.00
1	INSTRUCTION	
1	EXPLOSION STUDIES OF	3.00
3	CONTINENTAL STRUCTURE	
1	LOOSE LEAF NOTEBOOKS	3.50
1	WITH INVENTORY CARDS	
1	TRIANGLE POST 1749-6	1.00
1	SEVEN RING SOP FOLDER	1.00
3	THREE RING NOTEBOOK	1.00
6	CLIP BOARDS	.50
2	OFFSET PHILLIPS RACHET	.40
1	TUBE PULLER	.70
2	FUSE PULLER	.50
1	STOP WATCH	8.50
1	DECADE BOX #1171	
1	ALIGNMENT TOOL	.50
2	STEREOGRAPHIC PROJECTION	1.75
2	RULERS LUFKIN	1.00
2	SMALL C CLAMPS	1.50
2	MECHANICAL PENCILS	1.75
2	PLASTIC GARBAGE CANS	1.50
1	100' GARDEN HOSE	7.50

QTY	DESCRIPTION	COST
1	RUBBER STAMP HOLDER	1.50
3	EXTENSION CORDS	.59
1	TIRE PUMP	1.00

APPENDIX D

EQUIPMENT

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. FROM TEXAS INSTRUMENTS INCORPORATED SCIENCE SERVICE DIV.	7. DATE MATERIAL REQUIRED 1 MAY 67	8. PRIORITY
2. TO	9. AUTHORITY OR PURPOSE AFTAC/VELA LETTER DATED 16 MARCH 1967	
	10. SIGNATURE E. E. LEWIS <i>E. E. Lewis</i>	11. VOUCHER NUMBER AND DATE 57045-C-601
3. SHIP TO-MARK FOR TELEDYN ( GEOTECH DIV.)	12. DATE SHIPPED APRIL 18, 1967	13. VOUCHER NUMBER AND DATE
	14. MODE OF SHIPMENT	14. BILL OF LADING NUMBER
	15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER	

TRANSFER OF ACCOUNTABILITY OF CONTRACT AF33(657) 14648 TO VT/7702 CONTRACT F33657-67-C-0091

4. ACCOUNTING AND FUNDING DATA

ITEM NO. (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND COMING OF MATERIAL AND/OR SERVICES (b)	UNIT OF MEASURE (c)	QUANTITY REQUESTED (d)	SUPPLY ACTION (e)	TYPE STOCK NUMBER (f)	COM. STOCK NUMBER (g)	UNIT PRICE (h)	TOTAL COST (i)
1	SEISMOMETERS, SHORT-PERIOD, 6102A	EA	2				426.89	853.78
2	SEISMOMETERS, INTERMEDIATE-BAND, 10012	EA	1				1,089.31	1,089.31
3	SEISMOMETERS, INTERMEDIATE-BAND, 87008	EA	2				922.63	1,845.26
4	SEISMOMETERS, LONG-PERIOD, 7505	EA	1				922.63	922.63
5	SEISMOMETERS, LONG-PERIOD, 8700A	EA	2				918.88	1,837.76
6	POWER SUPPLY, 4304	EA	1				310.00	310.00
7	GALVO PTA, 8530	EA	1				667.49	667.49
8	GALVO PTA, 4100-213	EA	2				667.49	1,334.98
9	GALVO PTA, 4100-300	EA	1				150.00	150.00
10	DEVELOCORDER, 4000	EA	2				3,022.73	6,045.58
11	DEVELOCORDER CONSOLE, 6484	EA	1				130.44	260.88
12	FILM COFFER, THERMOFAX, FLUC100	EA	1				1887.00	1887.00
13	OPER AMPLIFIER, PHILBRICK, PF65AU	EA	2				35.00	70.00
14	ATTENUATOR, TECH LABS, TB622	EA	1				65.00	65.00
15	MOTORS, 115V-60 CYCLE, BODINE	EA	3				28.38	85.14
16	SPIRAL, 4 CABLE	RL	30				68.97	2069.10
17	MCOR FRAME GEOTECH 5791	EA	2				125.00	250.00

18. SPECIAL HANDLING	19. CONTAINERS RECEIVED EXCEPT AS NOTED	20. DATE	21. BY	22. SHEET TOTAL
19. SPECIAL HANDLING	20. CONTAINERS RECEIVED EXCEPT AS NOTED	20. DATE	21. BY	22. SHEET TOTAL
23. RECEIVED BY	24. DATE	25. BY	26. RECEIVED VOUCHER NO.	
23. RECEIVED BY	24. DATE	25. BY	26. RECEIVED VOUCHER NO.	
23. RECEIVED BY	24. DATE	25. BY	26. RECEIVED VOUCHER NO.	
TOTAL				



APPENDIX E

EQUIPMENT

SHIPPING CONTAINER TALLY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE/SHIPPING DOCUMENT	
TEXAS INSTRUMENTS INCORPORATED SCIENCE SERVICE DIV.	
7. DATE MATERIAL OBSERVED	
9. AUTHORITY OR PURPOSE AFTAC/VELA LETTER DATED 16 MARCH 1967	
10. SIGNATURE E. F. LEWIS	11a. VOUCHER NUMBER AND DATE APRIL 11, 1967
12. DATE SHIPPED	11b. VOUCHER NUMBER AND DATE 57045-C-603
13. MODE OF SHIPMENT	14. BILL OF LADING NUMBER
15. AIR MOVEMENT DESIGNATION OR POST REFERENCE NUMBER	

TRANSFER OF ACCOUNTABILITY TO VT/6702 CONTRACT AF33(657)15919

1. QUANTITY RECEIVED	2. QUANTITY OBSERVED	3. SUPPLY ACTION	4. CONT. NO. (IF APPLICABLE)	5. UNIT PRICE	6. TOTAL COST
EA	1			1,552.50	1,552.50
EA	1			207.32	207.32
EA	1			79.00	79.00
EA	1			43.50	43.50
EA	1			59.65	59.65
EA	1			96.14	96.14
EA	1			20.00	20.00
EA	1			42.75	42.75
EA	1			66.20	66.20
RL	2			38.75	77.50
EA	1			12.50	12.50

16. ISSUED BY	17. TOTAL CONTAINERS	18. TOTAL COM. TAPES	19. DESCRIPTION	20. TOTAL WEIGHT	21. TOTAL COST	22. SHEET TOTAL
CHECKED BY						
PACKED BY						
TOTAL				42	42	42
19. RECEIVER'S VOUCHER NO.						

APPENDIX F

EQUIPMENT



REQUISITION AND INVOICE/SHIPPING DOCUMENT

TEXAS INSTRUMENTS INCORPORATED SCIENCE SERVICE DIV.

TELEDYN (GEOTECH DIV.)

9. AUTHORITY OR PURPOSE  
AFTAC/VELA LETTER DATED 16 MARCH 1967

10. SIGNATURE  
E. E. LEWIS

11. VOUCHER NUMBER AND DATE  
APRIL 11, 1967

12. DATE SHIPPED  
57045-C-604

13. BILL OF LADING NUMBER

14. AIR MOVEMENT DESIGNATOR OR POST REFERENCE NUMBER

TRANSFER OF ACCOUNTABILITY TO T/113 CONTRACT F33657-67-C0655

QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
EA		1,552.50	1,552.50
EA		622.00	622.00
EA		150.00	150.00
EA		590.00	590.00
EA		210.00	210.00
EA		585.00	585.00
EA		95.00	95.00
EA		83.50	83.50

15. ISSUED BY

16. CHECKED BY

17. FACED BY

18. RECEIVED BY

19. RECEIVED'S VOUCHER NO.



APPENDIX G

EQUIPMENT

SHIPPING CONTAINER TALLY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE/SHIPPING DOCUMENT

TEXAS INSTRUMENTS INCORPORATED SCIENCE SERVICE DIV.

3. SHIP TO - NAME FOR  
TELEDYN ( GEOTECH DIV.)

7. DATE MATERIAL RECEIVED  
8. AUTHORITY OR PURPOSE  
AFTAC/VELA LETTER DATED 16 MARCH 1967

10. SIGNATURE  
E. E. LEWIS

11. VOUCHER NUMBER AND DATE  
APRIL 11, 1967

12. DATE SHIPPED  
57045-C-602

13. MODE OF SHIPMENT  
14. BILL OF LADING NUMBER

15. AIR MOVEMENT DESIGNATION OR POST REFERENCE NUMBER

TRANSFER OF ACCOUNTABILITY TO VT/5051 CONTRACT AF33(657)13563

ITEM NO.	QUANTITY REQUESTED	SUPPLY POINT	UNIT PRICE	TOTAL COST
1	3		537.86	1613.58
2	3		310.00	930.00
3	1		90.00	90.00
4	1		3,022.79	3,022.79

16. SPECIFY BY  
CHECKED BY  
PACKED BY

17. RECEIPT

18. RECEIPT'S VOUCHER NO.

DD FORM 1 MAY 64 1149



APPEND H

EQUIPMENT



SHIPPING CONTAINER TALLY

# REQUISITION AND INVOICE/SHIPPING DOCUMENT

TEXAS INSTRUMENTS INCORPORATED SCIENCE SERVICE DIV.

3. SHIP TO - MARK FOR

TELEDYN (GEOTECH DIV.)

4. ACCOUNTING AND FURNISHING DATA

TRANSFER OF ACCOUNTIBILITY TO VT/6705 CONTRACT AF33(657)16563

STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
1 PTA FILTERS, 6824-7	2		72.00	144.00
2 TAPE RECORDER, MAGNETIC, 300 W/(TRANSFORMER, BLOWER, CONTROL UNIT)	1		18,000.00	18,000.00
3 POWER SUPPLY, PHILDRICK, PR30C	1		35.00	35.00
4 GAUSSMETER, DYNAEMPIRE, D874	1		220.00	220.00
5 RADIO RECEIVER, SPEC PROD, WVTR	1		660.00	660.00
6 TRANSDUCER CAN, 11057	1		584.17	584.17
7 CAPSULE MB, 10741	1		165.03	165.03
8 OSCILLATOR, MB, 10380	1		94.96	94.96
9 POWER DIST, MB, 12322	1		139.67	139.67
10 DISCRIMINATOR, 10821	1		139.67	139.67
11 FILTER AMPLIFIER, 11982	1		171.34	171.34
12 FILTER AMPLIFIER, 12020	1		239.44	239.44
13 CRIMP SHIELD, 47750-2	1		40.30	40.30
14 CRIMP TOOL, CERTI-CRIMP, 48430	1		26.10	26.10
15 CRIMP TOOL, CERTI-CRIMP, 48431	1		189.50	189.50
16 POWER SUPPLY, LAMEDA C-281-M	1			
17 TOTAL				19,750.50

18. ISSUED BY: *[Signature]* 19. CONTAINERS RECEIVED AS NOTED: *[Signature]* 20. DATE: *[Signature]*

CHECKED BY: *[Signature]* 21. QUANTITIES RECEIVED AS NOTED: *[Signature]* 22. DATE: *[Signature]*

PACKED BY: *[Signature]* 23. POSTED: *[Signature]* 24. DATE: *[Signature]*

19. RECEIPT TOTAL: *[Signature]* 20. EXPEND TOTAL: *[Signature]* 21. 18. PATIENT'S VOUCHER: *[Signature]*





## APPENDIX I

## EQUIPMENT

## REQUISITION AND INVOICE/SHIPPING DOCUMENT

FROM.	1	25	7	DATE MATERIAL REQUIRED	8	PRIORITY
2. TO	TEXAS INSTRUMENTS INCORPORATED SCIENCE SERVICE DIVISION					
	WICHITA MOUNTAINS SEISMOLOGICAL OBSERVATORY					
	P.O. BOX 52071					
	LANTON, OKLAHOMA 73505					
3. SHIP TO - MARK FOR	SAME					
9. AUTHORITY OR PURPOSE						
AFTAC/VELA LETTER DATED 16 MARCH 1967						
10. SIGNATURE	E. E. LEWIS		11. VOUCHER NUMBER AND DATE	57045-C-606		
12. DATE SHIPPED			13. VOUCHER NUMBER AND DATE	24 APRIL 1967		
13. MODE OF SHIPMENT			14. BILL OF LADING NUMBER			
15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER						
ACCOUNTING AND BILLING DATA						

## TRANSFER OF ACCOUNTABILITY TO WICHITA MOUNTAINS SEISMOLOGICAL OBSERVATORY

UNIT NO.	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
	DIGITAL MULTICHANNEL FILTER PROCESSOR CONSISTING OF:				
	TI552553-2 PAPER TAPE READER	1		219,006.00	219,006.00
	TI563991-1 MULTICHANNEL FILTER PROCESSOR	1			
	TI555774-1 DIGITAL TO ANALOG CONVERTER	1			
	TI555754-1 SIGNAL CONDITIONER	1			
	TI555775-1 POWER DISTRIBUTION	1			
	TI555771-1 CONTROL 1	1			
	TI555772-1 CONTROL 2	1			
	TI555773-1 PROGRAM	1			
	TI555751-1 MULTIPLIER	1			
	TI189311 MULTIPLEX (TI555714-1)	1			
	TI198930 ANALOG TO DIGITAL CONVERTER (TI553712-1)	1			
	DB114963 LOGIC POWER SUPPLY	1			
	TI553101-1 MCF ANALOG TEST SET DOCUMENTATION	1			
	TI555790-1 CARD TEST SET	1			
	DIGITAL MULTICHANNEL FILTER PROCESSOR SYSTEM (AUXILIARY) 580600	1			

[illegible]

# REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. FROM.		SHEET NO. OF SHEETS 12 25		15 REQUISITION DATE		6. REQUISITION NO.	
2. TO		7. DATE MATERIAL REQUIRED		8. PRIORITY			
3. SHIP TO-MARK FOR		9. AUTHORITY OR PURPOSE		11. VOUCHER NUMBER AND DATE			
		10. SIGNATURE		12. DATE SHIPPED		13. VOUCHER NUMBER AND DATE	
		13. MODE OF SHIPMENT		14. BILL OF LADING NUMBER		57045-C-606	
4. ACCOUNTING AND FUNDING DATA		15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER					

ITEM NO.	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
1	SERIAL NUMBER 1 CONSISTING OF:	1			
2	CABINET, 580605, SERIAL NUMBER 1	1			
3	OUTPUT DRAWER 580602, SERIAL NUMBER 1	1			
4	ARITHMETIC DRAWER 580603, SERIAL NUMBER 1	1			
5	555728-1 DA CARD	2			
6	CONTROLLER DRAWER 580601, SERIAL NUMBER 1	1			
7	555705-1 1B CARD	1			
8	546742-1 O CARD	1			
9	546739-1 M CARD	1			
10	546736-1 L CARD	2			
11	546733-1 K CARD	1			
12	546730-1 J CARD	2			
13	546724-1 H CARD	2			
14	546721-1 G CARD	1			
15	546718-1 F CARD	3			
16	546715-1 E CARD	2			
17	546712-1 D CARD	1			

16. TRANSPORTATION VIA MATS		17. SPECIAL HANDLING	
OR NETS CHANGEABLE TO			
18. ISSUED BY		19. CONTAINER DATE	
CHECKED BY		BY	
PACKED BY		DATE	
TOTAL CONTAINERS		GRAND TOTAL	
TOTAL WEIGHT		20. RECEIVER'S VOUCHER NO	
TOTAL CUBE			

DD FORM 1149 51 52 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
 1 MAR 50  
 REPLACES EDITION OF 1 MAY 49 WHICH MAY BE USED.

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1 FROM.		SHEET NO. OF SHEETS 13 25		3. REQUISITION DATE		6. REQUISITION NO	
2. TO		7 DATE MATERIEL REQUIRED		8. PRIORITY			
3. SHIP TO-MARK FOR		9. AUTHORITY OR PURPOSE		11.6 VOUCHER NUMBER AND DATE 57015-C-606			
		10. SIGNATURE		12 VOUCHER NUMBER AND DATE			
		14 DATE SHIPPED		13 VOUCHER NUMBER AND DATE			
		13. MODE OF SHIPMENT		14 BILL OF LADING NUMBER			
		15 AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER					
4. ACCOUNTING AND FUNDING DATA							

ITEM NO.	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIEL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
546712-1	D CARD	2			
546709-1	C CARD	1			
546706-1	B CARD	1			
563095-1	INPUT TIMING CARD	1			
546747-1	R CARD	1			
546753-1	S CARD	1			
555708-1	SIG. COND. CARD	1			
563097-1	TIME CARD	1			
546703-1	A CARD	2			
520182-1		1			
	CONTROL MODULES 5792B	22		56.95	1,252.50
	CONTROL MODULES 5792	8		49.50	396.00
	DATA CONTROL FRAMES 5791	2		33.78	67.56

16. TRANSPORTATION VIA WAYS OR MSTS CHARGEABLE TO		17. SPECIAL HANDLING	
ISSUED BY	TOTAL CONTAINERS	CONTAINERS RECEIVED EXCEPT AS NOTED	DATE
CHECKED BY		QUANTITIES RECEIVED EXCEPT AS NOTED	DATE
PACKED BY		POSTED	DATE
TOTAL		20. RECEIVER'S VOUCHER NO	







NO. OF SHEETS	NO. OF PAGE	NO. OF PAGE
1	1	1

FROM:		68 25	
7. DATE RECEIVED REQUIRED		8. PRIORITY	
9. AUTHORITY OR PURPOSE		11a. NUMBER NUMBER AND DATE 57045-C-606	
10. SIGNATURE		11b. BILL OF LADING NUMBER	
12. DATE SHIPPED			
13. MODE OF SHIPMENT			
SHIP TO - CARE FOR			
4. ACCOUNTING AND FINANCIAL DATA			

Switch, PA4005  
Switch, PA670-452  
Switch, PA670-369  
Switch, TOGGLE  
Connector XLR-3-12C  
Connector XLR-3-31  
Transistor 2N697  
Transistor 2N1308  
Transistor 2N1300

ITEM NO.	STOCK NUMBER AND DESCRIPTION OF MATERIAL AND/OR SERVICES	UNIT OF MEASURE	QUANTITY REQUIRED	SUPPLY ACTION	TYPE COM. TAPE	COM. TAPE IN %	UNIT PRICE	TOTAL COST
29	530954-7 Switch, PA4005	each	2					
30	530944-2 Switch, PA670-452	"	6					
31	530944-1 Switch, PA670-369	"	4					
32	413470-1 Switch, TOGGLE	"	2					
33	530932-1 Connector XLR-3-12C	"	7					
34	530931-1 Connector XLR-3-31	"	4					
35	418075-2 Transistor 2N697	"	117					
36	530354-4 Transistor. 2N1308	"	81					
37	413260-2 Transistor 2N1309	"	80					
38	412642-1 Transistor 2N706A	"	119					
39	416779-1 Transistor 2N1302	"	38					
40	414826-14 DIODE 1N759A	"	93					
41	416779-2 Transistor 2N1303	"	42					
42	507752-6 Resistor, Kelvin 7K. .02%	"	6					
43	416365-8 Resistor, Kelvin 10K. .05%	"	10					
44	416365-10 Resistor, Kelvin 10K. .5%	"	17					

0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0
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## RETURN TO: DRAGON XN000X/SHIPPING DOCUMENT

SECTION I		SHIP TO - DATE FOR Y		4. ACCOUNTING AND FUNDING DATA	
		10. AUTHORITY OR PURPOSE		13. MODE OF SHIPMENT	
				14. BILL OF LADING NUMBER	
		16. SIGNATURE		11A. VOUCHER NUMBER AND DATE	
				57045-606	
		12. DATE SHIPPED		11. DATE	
				7-25-60	
		7. DATE MATCHES REQUIRED		8. PRIORITY	
		NO. SHEETS		9. ACQUISITION DATA	
				7 X 25	
		NO. MATCHES		10. ACQUISITION NUMBER	

## STOCK NUMBER AND DESCRIPTION OF MATCHES AND/OR SERVICES. I

	PAGE	ACTION	REMARKS	UNIT PRICE	TOTAL COST
45	416365-9	Resistor, Kelvin 10K, .1%	each 10		
46	507752-5	Resistor, Kelvin 5K, .02%	" "		
47	416365-11	Resistor, Kelvin 5K, .05%	" "		
48	416365-12	Resistor, Kelvin 5K, .1%	" "		
49	416365-13	Resistor, Kelvin 5K, .5%	" "		
50	411336-70	Resistor, 1/2 W, 200 ohm	" "		
51	411336-78	Resistor, 1/2 W, 430 ohm	" "		
52	411336-87	Resistor, 1/2 W, 1K	" "		
53	416754-105	Resistor, 1/4 W, 5.6K	" "		
54	416754-88	Resistor, 1/4 W, 1.1K	" "		
55	416754-135	Resistor, 1/4 W, 100K	" "		
56	416754-111	Resistor, 1/4 W, 10K	" "		
57	416754-95	Resistor, 1/4 W, 2.2K	" "		
58	416754-101	Resistor, 1/4 W, 3.9K	" "		
59	416754-83	Resistor, 1/4 W, 680 ohm	" "		
60	416754-123	Resistor, 1/4 W, 33K	" "		

ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	18. RECEIPT		19. CONTAINERS RECEIVED EXCEPT AS NOTED	DATE	BY	20. SHEET TOTAL
CHECKED BY								QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	20. SHEET TOTAL
PACKED BY									DATE	BY	20. SHEET TOTAL
TOTAL						TOTAL					



SHIPPING CONTAINER DATA

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

SECTION I

1. FACTORY		2. NO. OF SHEETS		3. REQUISITION DATE		4. ALLOCATION NUMBER	
8X		25					
5. DATE MATERIAL REQUIRED				6. AUTHORITY OR PURPOSE			
7. SIGNATURE				8. VOUCHER NUMBER AND DATE			
12. DATE SHIPPED				57045- C-606			
13. MODE OF SHIPMENT				14. BILL OF LADING NUMBER			

SECTION II

ITEM NO.	STOCK NUMBER AND DESCRIPTION OF MATERIAL AND/OR LANCES	UNIT OF ISSUE	QUANTITY REQUESTED	SUPPLY ACTION	TYPE OF TANKER	CON. TANKER NO.	UNIT PRICE	TOTAL COST
61	416754-97 Resistor, 1/4 W, 2.7K	each	69					
62	416754-80 Resistor, 1/4 W, 510 ohm	"	40					
63	416754-66 Resistor, 1/4 W, 130 ohm	"	7					
64	416994-289 Resistor, Fixed 10K, 1/4 W	"	4					
65	416994-193 Resistor, Fixed 1K, 1/4 W	"	3					
66	412629-420 Resistor, 107K, CG 1/4	"	25					
67	416045-38 Resistor, 5.1 ohm, 5V	"	10					
68	507752-4 Resistor, Kelvin 10K .02%	"	9					
69	416448-442 Resistor, 825 ohm	"	20					
70	416448-459 Resistor, 1.33K	"	20					
71	416448-489 Resistor, 3.4K	"	20					
72	416448-405 Resistor, 309 ohm	"	20					
73	531132-1 Resistor, 4.64 ohm	"	2					
74	530952-1 Capacitor 3.0 MFD, 200 V	"	49					
75	53992-1 Capacitor .01 MF, 150V	"	240					
76	411738-476 Capacitor 47MF, 20V	"	50					

ISSUED BY		TOTAL CONTAINERS		TYPE OF TANKER		RECEIPTION		TOTAL WEIGHT		TOTAL COST		CONTAINERS RECEIVED AS SHIPPED		DATE		15. SHEET TOTAL	
CHECKED BY												QUANTITIES RECEIVED AS SHIPPED		DATE		16. SHEET TOTAL	
PACKED BY												QUANTITIES RECEIVED AS SHIPPED		DATE		17. RECEIPT'S VOUCHER NO.	

FORM 1-8

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SECTION II

ITEM NO.	STOCK NUMBER AND DESCRIPTION OF MATERIAL AND/OR SERVICES	UNIT OR ISSUE	QUANTITY REQUESTED	SUPPLY ACTION	TYPE CON. TAINER	CON. TAINER NO.	UNIT PRICE	TOTAL COST
93	530961-2 Lamp with Legend 2	each	3					
94	530961-3 Lamp with Legend 3	each	3					
95	530961-4 Lamp with Legend 4	"	4					
96	530961-5 Lamp with Legend 5	"	5					
97	530961-6 Lamp with Legend 6	"	4					
98	530961-7 Lamp with Legend 7	"	3					
99	530961-8 Lamp with Legend 8	"	3					
100	530961-9 Lamp with Legend 9	"	8					
101	530961-10 Lamp with Legend 10	"	4					
102	530961-11 Lamp with Legend 11	"	4					
103	530961-12 Lamp with Legend 12	"	4					
104	530961-13 Lamp with Legend 13	"	2					
105	530961-14 Lamp with Legend 14	"	2					
106	530935-1 Socket (Elden.a)	"	9					
107	411123-73 Knob, Switch	"	2					
108	416092-7 Clamp, Cable MS305716A	"	5					

ISSUED BY	TOTAL CONTAINERS	TYPE CON. TAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBIC	18. RECEIVED	CONTAINERS RECEIVED EXCEPT AS NOTED	DATE	BY	18. SMALL TOTAL
CHECKED BY						RECEIVED	QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	18. GRAND TOTAL
PACKED BY								DATE	BY	19. RECEIVED'S VOUCHER NO.

FORM 1149	DATE	TOTAL
1 JUL 50		







NEW ENGLAND SHIPPING DOCUMENT

SHIP TO - KAK FOR 1		SHIP TO - KAK FOR 2		SHIP TO - KAK FOR 3	
1. DATE OF SHIPMENT		2. DATE OF SHIPMENT		3. DATE OF SHIPMENT	
4. AUTHORITY OR PURPOSE		5. AUTHORITY OR PURPOSE		6. AUTHORITY OR PURPOSE	
7. DATE MATERIAL RECEIVED		8. DATE MATERIAL RECEIVED		9. DATE MATERIAL RECEIVED	
10. SIGNATURE		11. SIGNATURE		12. SIGNATURE	
13. VOUCHER NUMBER AND DATE		14. VOUCHER NUMBER AND DATE		15. VOUCHER NUMBER AND DATE	
16. BILL OF LADING NUMBER		17. BILL OF LADING NUMBER		18. BILL OF LADING NUMBER	

4. ACCOUNTING AND FUNDING DATA

ITEM NO.	STOCK NUMBER AND DESCRIPTION OF MATERIAL AND/OR SERVICES	UNIT OF ISSUE	QUANTITY REQUESTED	SUPPLY ACTION	TYPE COM. TAINER	CON. TAINER NO.	UNIT PRICE	TOTAL COST
126	580624-1 PCB Assy	each	1					
127	580620-1 PCB Assy	"	1					
128	546767-1 Guide Card	"	1					
129	530920-4 Slide (Jonathan) PTC1120052AL	"	1					
130	530920-5 Slide (Jonathan) PTC1120052AR	"	1					
131	530919-3 Slide (Jonathan) PTC1120047BR	"	1					
132	530919-2 Slide (Jonathan) PTC1120047BL	"	1					
133	530920-2 Slide (Jonathan) PTC1120052BL	"	1					
134	530920-3 Slide (Jonathan) PTC1120052BR	"	1					
135	1 Lot of Misc. Scrap Material	Lot	1					

SECTION II

17. ISSUED BY		18. CONTAINERS RECEIVED		19. CONTAINERS RECEIVED	
20. CHECKED BY		21. QUANTITIES RECEIVED		22. QUANTITIES RECEIVED	
23. PACKED BY		24. DATE		25. DATE	
26. TOTAL		27. TOTAL		28. TOTAL	

FORM 1 JUL 66 1149

U.S. GOVERNMENT PRINTING OFFICE: 1967 O-431410

SHIPPING CONTAINER VALLY

# REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. NO. OF SHEETS 131 25

2. DATE MATERIAL REQUIRED 131 25

3. AUTHORITY OR PURPOSE

10. STOCKS

11. DATE SHIPPED

12. MODE OF SHIPMENT

13. AIR MOVEMENT DESIGNATOR OR POST SYMBOLS NUMBER

14. VOUCHER NUMBER AND DATE 57045-C-606

15. VOUCHER NUMBER AND DATE

16. BILL LADING NUMBER

2. SHIP TO - NAME FOR

3. ACCOUNTING AND FUNDING DATA

## STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES

STOCK NUMBER	DESCRIPTION	TYPE CODE-TAINER	TOTAL CONTAINERS	TOTAL WEIGHT	TOTAL CUBE	QUANTITY SUBMITTED	SUPPLY ACTION	COM. CONTAINER NO.	UNIT PRICE	TOTAL COST
Diode 1N914	412162-1					85	Sack		.20	17.00
Diode 1N759A						2	Sack		1.00	2.00
Transistor 2N1309	413260-2					165	Bpx		.445	73.43
Transistor 2N1309	412315-2					169	Bpx		.51	86.19
Transistor 2N753	412642-2					54	Bpx		1.31	70.75
Transistor 2N706	412642-1					21	Sack		.45	9.45
Transistor 2N697	412388-1					22	Sack		.31	6.82
Transistor 2N964						4	Sack		.89	3.56
Transistor 2N726	454916-1					16	Sack		4.00	32.00
Transistor 2N1038	412315-1					1	Sack		2.25	2.25
Transistor 2N2015						1	Sack		9.08	9.08
SCNnSN1080-SN7300	507230-1					42	Sack		5.40	226.80
SCN SN1091-SN7370	507241-1					25	Sack		5.40	135.00
SCN SN1090-SN7360	507240-1					35	Sack		4.20	147.00
SCN SN1084-SN7311	507234-1					31	Sack		4.20	130.20

4. ISSUED BY

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FORM 1149

REPLACES SECTION OF 1 JUL 55 WHICH MAY BE USED

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# REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. SHEET NO. OF SHEETS 141	2. DATE MATERIAL REQUIRED 25	3. AUTHORITY OR PURPOSE	4. VOUCHER NUMBER AND DATE 57045-C-606
5. RECEIPTION DATE	6. RECEIPTION NUMBER	7. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER	8. DATE OF LADING NUMBER
9. SIGNATURE	10. DATE SHIPPED	11. VOUCHER NUMBER AND DATE	12. VOUCHER NUMBER AND DATE
13. MOOS OF SHIPMENT	14. DATE OF LADING NUMBER	15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER	16. DATE OF LADING NUMBER

## ACCOUNTING AND FUNDING DATA

STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
7 SCN SN7331	32	Sack	4.20	134.40
8 SCN SN1089-SN7350	63	Sack	3.80	239.40
9 Capacitor 3.0 UF 200V 5%	16	Sack	1.29	20.64
10 Capacitor .01 UF 50V	390	Sack	.08	31.20
11 Capacitor .15 UF 100V 10%	2	Sack	.36	.72
12 Capacitor .3 UF 50V	1	Sack	2.00	2.00
13 Capacitor .3UF 50V 10%	2	Sack	2.00	4.00
14 Capacitor DM10E 33J 33 UUF	5	Sack	.23	.46
15 Capacitor DM10-101J 100 UUF	5	Sack	.26	1.30
16 Capacitor DM10-820J 82 UUF	7	Sack	.25	1.75
17 Capacitor DM10-680J 68 UUF	3	Sack	.26	.78
18 Capacitor DM11-820J 82 UUF	2	Sack	.15	.30
19 Capacitor DM15-300J 30 UUF	3	Sack	.10	.30
20 Capacitor DM15-101J 100 UUF	3	Sack	.15	.45
21 Capacitor DM15E-300J 30 UUF				

14. ISSUED BY	15. CONTAINER NO.	16. DATE	17. RECEIPT
CHECKED BY	QUANTITIES RECEIVED	DATE	DATE
PACKED BY	QUANTITIES RECEIVED	DATE	DATE
TOTAL CONTAINERS		TOTAL WEIGHT	
TOTAL CUBE		TOTAL	

DD FORM 1 MAY 60 1149

REPLACES EDITION OF 1 JUL 59 WHICH MAY BE USED



SHIPPING CONTAINER TALLY

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. SHEET NO. OF 151 25  
2. DATE MATERIAL REQUIRED  
3. AUTHORITY OR PURPOSE  
4. VOUCHER NUMBER AND DATE 57045-C-606  
5. VOUCHER NUMBER AND DATE  
6. BILL OF LADING NUMBER  
7. DATE MATERIAL REQUIRED  
8. PRIORITY  
9. AIR NOTIFICATION DESIGNATOR OR PORT REFERENCE NUMBER

ACCOUNTING AND FURNISHING DATA

STOCK NUMBER, DESCRIPTION, AND CODES OF MATERIAL AND/OR SERVICES

STOCK NUMBER	DESCRIPTION	CODES	QUANTITY	SUPPLY ACTION	UNIT PRICE	TOTAL COST
Cap DM15E-11-1J 110 UUF	530004-127	Ea	3	Sack	.16	.48
Cap DM15F-910J 91 UUF	416660-900	Ea	2	Sack	.16	.32
Resistor 2.2K 1/4 W AB	416754-96	Ea	5	Sack	.04	.20
Resistor 3.9K 1/4 W AB	416754-101	Ea	4	Sack	.03	.12
Resistor 4.7K 1/4 W AB	416754-103	Ea	55	Sack	.03	1.65
Resistor 6.8K 1/4 W AB	416754-107	Ea	35	Sack	.03	1.05
Resistor 15K 1/4 W AB	416754-115	Ea	7	Sack	.03	.21
Resistor 68Q 1/4 W AB	416754-155	Ea	95	Sack	.04	3.80
Resistor 100 1/4 W AB	416754-7	Ea	8	Sack	.04	.32
Resistor 51 1/2 W AB	411336-56	Ea	5	Sack	.04	.20
Resistor 100 1/2 W AB	411336-63	Ea	12	Sack	.03	.36
Resistor 150 1/2 W AB	411336-67	Ea	38	Sack	.04	1.52
Resistor 510 1/2 W AB	411336-80	Ea	6	Sack	.04	.24
Resistor 750 1/2 W AB	411336-84	Ea	8	Sack	.04	.32
Resistor 4.7K 1/2 W AB	411336-103	Ea	3	Sack	.04	.12

10. ISSUED BY  
11. CHECKED BY  
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13. RECEIPT  
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FORM 1149

REPLACES EDITION OF 1 JUL 59 WHICH MAY BE USED



# REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. SHEET NO. OF SHEETS 161 25		2. ACQUISITION DATE		3. DISPOSITION NUMBER	
7. DATE MATERIAL RECEIVED		8. PRIORITY		9. AUTHORITY OR PURPOSE	
10. SIGNATURE		11. VOUCHER NUMBER AND DATE 57045-C-606		12. VOUCHER NUMBER AND DATE	
13. DATE SHIPPED		14. BILL OF LADING NUMBER		15. AIR CARRIER DESIGNATION OR PONY REFERENCE NUMBER	

## ACCOUNTING AND FUNDING DATA

4. QUANTITY REQUESTED	5. SUPPLY ACTION	6. COM. TANKER NO.	7. UNIT PRICE	8. TOTAL COST
7	Sack		.25	1.75
9	Sack		.25	2.25
30	Sack		.25	7.50
30	Sack		.25	7.50
30	Sack		.25	7.50
19	Sack		.25	4.75
30	Sack		.25	7.50
29	Sack		.25	7.25
8	Sack		.15 q	1.20
10	Sack		.15	1.50
10	Sack		.15	1.50
8	Sack		.15	1.20
11	Sack		.15	1.65
9	Sack		.15	1.35
10	Sack		2.65	26.50

16. ISSUED BY		17. CONTAINER RECEIVED EXCEPT AS NOTED		18. SHEET TOTAL	
CHECKED BY		DATE		19. RECEIVED'S VOUCHER NO.	
PACKED BY		DATE		20. RECEIVED'S VOUCHER NO.	

SHIPPING CONTAINER TALLY

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1. SHEET NO. OF SHEETS  
17 25

2. DATE MATERIAL REQUIRED

3. AUTHORITY OR PURPOSE

4. SIGNATURE

5. DATE SHIPPED

6. MODE OF SHIPMENT

7. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER

8. VOUCHER NUMBER AND DATE  
57045-C-606

9. VOUCHER NUMBER AND DATE

10. BILL OF LADING NUMBER

ACCOUNTING AND FURNISH DATA

ISSUED BY	TOTAL QUANTITIES	TOTAL WEIGHT	TOTAL CUBE	DESCRIPTION	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
22 Resistor 50K Trimpot				276-1-503K	10	Sack	2.00	20.00
23 Resistor 7K .02% Kelvin				EP 21	2	Sack	1.40	2.80
24 Resistor 5K .1% Kelvin				EP 21	4	Sack	.94	3.76
25 Resistor 5K .5% Kelvin				EP 21	1	Sack	.82	.82
26 Resistor 5K .02% Kelvin				EP 21	4	Sack	1.40	5.60
27 Resistor 5K .05% Kelvin				EP 21	1	Sack	1.02	1.02
28 Crystal				JRAH-17	1	Sack	9.41	9.41
29 Amplifier Nexus				SA-1	1	Sack	25.00	25.00
30 Cable Clamp, MS 3057-6A				416092-3	1	Box	.69	.69
31 Cable Clamp, MS 3057-12A				416092-6	1	Box	.85	.85
32 Cable Clamp, MS 3057-16A				416092-7	3	Box	1.03	3.09
33 Connector, Airborne				530519-1	10	Box	7.81	78.10
34 Connector, Airborne				530519-2	1	Box	7.81	7.81
35 Connector, Airborne				530519-3	1	Box	7.81	7.81
36 Connector, Airborne				530519-4	1	Box	7.81	7.81
37					2	Box	7.81	15.62

18. ISSUED BY

19. CHECKED BY

20. PACKED BY

21. TOTAL QUANTITIES

22. TOTAL WEIGHT

23. TOTAL CUBE

24. DESCRIPTION

25. QUANTITY REQUESTED

26. SUPPLY ACTION

27. UNIT PRICE

28. TOTAL COST

29. RECEIVED BY

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# REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. SHEET NO. OF 81		2. ACQUISITION DATE 25		3. REQUISITION NUMBER	
4. DATE MATERIAL REQUIRED		5. FAIRPLAY		6. AUTHORITY OR PURPOSE	
7. SIGNATURE		8. VOUCHER NUMBER AND DATE 57045-C-606		9. VOUCHER NUMBER AND DATE	
10. DATE SHIPPED		11. BILL OF LADING NUMBER		12. AIR MOVEMENT DESIGNATION OR POST REFERENCE NUMBER	

13. ACCOUNTING AND FINANCIAL DATA

STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	CON. VOUCHER NOS.	UNIT PRICE	TOTAL COST
77 Connector, Airborne	1	Box		7.81	7.81
78 Connector, Airborne	1	Box		4.58	4.58
79 Connector, Airborne	81	Box		4.58	4.58
80 Connector, Airborne	1	Box		4.58	4.58
81 Connector, Cannon	2	Box		.92	1.84
82 Connector, Cannon	1	Box		1.77	1.77
83 Connector-Receptacle	1	Box		5.84	5.84
84 Connector, Receptacle	1	Box		8.90	8.90
85 Connector, Receptacle	1	Box		8.12	8.12
86 Connector	2	Box		14.56	29.12
87 Connector-Bendix	1	Box		6.80	6.80
88 Connector-Receptacle-Bendix	1	Box		1.28	1.28
89 Connector-Receptacle	1	Box		2.03	2.03
90 Connector-Receptacle	1	Box		1.28	1.28
91 Connector	1	Box		1.13	1.13

14. ISSUED BY	15. TOTAL CONTAINERS	16. TYPE CONTAINER	17. DESCRIPTION	18. TOTAL WEIGHT	19. TOTAL CUBE	20. CONTAINERS RECEIVED EXCEPT AS NOTED	21. DATE	22. SHEET TOTAL	23. GRAND TOTAL	24. RECEIPT	25. 10. RECEIVER'S VOUCHER NO.
CHECKED BY						QUANTITIES RECEIVED EXCEPT AS NOTED					
PACKED BY						POSTED					
<p>DD FORM 1 MAY 66 1149</p> <p>REPLACES EDITION OF 1 JUL 66 WHICH MAY BE USED</p>											



SHIPPING CONTAINER TALLY

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. DATE OF REQUISITION 91 25

2. DATE MATERIAL REQUIRED

3. AUTHORITY OR PURPOSE

11. SIGNATURE

12. DATE SHIPPED

13. MODE OF SHIPMENT

14. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NUMBER

4. QUANTITIES AND PACKING DATA

STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES

ITEM NO.	STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	CON- TAINERS/SHIP- PER NOS.	UNIT PRICE	TOTAL COST
92	Coax Connector	4		Box	.86	3.44
93	Connector, Amphenol	2		Box	.88	1.76
94	Switch, Index Assembly	5		Box	1.98	9.90
95	Switch, Centralab	2		Box	1.74	3.48
96	Connector, 2VH43/1AN3	10		Box	5.00	50.00
97	Switch, Centralab	1		Box	2.61	2.61
98	Switch, Centralab	1		Box	4.74	4.74
99	Switch, Centralab	1		Box	3.72	3.72
00	Switch, Centralab	1		Box	5.70	5.70
01	Switch, Centralab	1		Box	5.70	5.70
02	Switch, Centralab	1		Box	2.39	2.39
03	Switch, Centralab	1		Box	3.48	3.48
04	Switch, Centralab	1		Box	4.98	4.98
05	Switch, Micro	1		Box	3.70	3.70
06	Switch, Micro	1		Box	5.10	5.10

ISSUED BY	TOTAL CONTAINERS	TYPE CON- TAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE	CONTAINERS RECEIVED EXCEPT AS NOTED	DATE	BY	RECEIVED'S - DOCKER
CHECKED BY									
PACKED BY									
			TOTAL						

DD FORM 1149

REPLACES EDITION OF 1 JUL 50 WHICH MAY BE USED



# REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. DATE 20 25

2. DATE MATERIAL RECEIVED

3. AUTHORITY OR PURPOSE

4. SIGNATURE

5. DATE SHIPPED

6. MODE OF SHIPMENT

7. AIR MOVEMENTS DESIGNATION OR POST REFERENCE SYMBOL

8. VOUCHER NUMBER AND DATE  
57045-C-606

9. VOUCHER NUMBER AND DATE

10. BILL OF LADING NUMBER

## ACCOUNTING AND FUNDING DATA

## STOCK NUMBER, DESCRIPTION, AND CODE OF MATERIAL AND/OR SERVICES

ITEM NO.	STOCK NUMBER	DESCRIPTION	QUANTITY REQUESTED	QUANTITY SUPPLIED	UNIT PRICE	TOTAL COST
07	20 100	Switch, Micro	1	Box	2.70	2.70
08	20 118	Switch, Micro	1	Box	4.20	4.20
09	20 118	Switch, Micro	2	Box	4.20	8.40
10	2F 209	Switch, Micro	2	Box	3.00	6.00
11	235M	Thumbwheel Switch, EECO	1	Box	11.40	11.40
12	257M	Thumbwheel Switch, EECO	3	Box	11.88	35.64
13		Transistor 2N967	2	Box	.78	1.56
14	10K6	Crimping Tools	1	Box	122.00	122.00

15. ISSUED BY

16. CHECKED BY

17. PACKED BY

18. CONTAINER RECEIVED EXCEPT AS NOTED

19. RECEIPT

20. TOTAL WEIGHT

21. TOTAL CUBE

22. DESCRIPTION

23. TOTAL

24. RECEIVED BY

25. RECEIVED DATE

26. RECEIVED VOUCHER NO.

DD FORM 1 MAY 66 1149

REPLACES CONTIN OF 1 JUL 66 WHICH MAY BE USED

SHIPPING CONTAINER TALLY

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1. DATE OF RECEIPT  
21 25

2. DATE MATCHED REQUIRED

3. AUTHORITY OR PURPOSE

4. SIGNATURE

5. DATE SHIPPED

6. MODE OF SHIPMENT

7. AIR MOVEMENT ORIGINATOR OR POINT REFERENCE NUMBER

8. VOUCHER NUMBER AND DATE  
57045-C-606

9. VOUCHER NUMBER AND DATE

10. BILL OF LADING NUMBER

4. ACCOUNTING AND FORDING DATA

STOCK NUMBER	DESCRIPTION, AIR CODES OF MATERIAL AND/OR SERVICE	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
Slide	PTC11200478R	1	Sack	6.00	6.00
Slide	PTC11200478L	2	Sack	6.00	12.00
Contact Airborn	164KS	975	Sack	.17	165.75
Contact Airborn	164XP	1000	Sack	.07	70.00
Handle	6112-2-2AC	4	Sack	8.00	32.00
Fastener Southco	58-78-507-24	18	Sack	.44	7.92
Terminal Strip-Allied	HHS-855	10	Sack	4.08	40.80
PC Board Ejector	413277-1	94	Sack	.30	28.20
PC Board Ejector	535024-1	4	Sack	.50	2.00
PC Board Ejector	530524-2	1	Sack	.50	.50
PC Board Ejector	530524-4	4	Sack	.50	2.00
PC Board Ejector	530524-6	1	Sack	.50	.50
PC Board Ejector	530524-8	23	Sack	.50	11.50
PC Board Ejector	535024-9	6	Sack	.50	3.00
PC Board Ejector	535024-10	10	Sack	.50	5.00

16. ISSUED BY

17. CHECKED BY

18. PACKED BY

19. CONTAINERS RECEIVED EXCEPT AS NOTED

20. QUANTITIES RECEIVED EXCEPT AS NOTED

21. DATE OF RECEIPT

22. DATE OF SHIPMENT

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DD FORM 1149

REPLACES EDITION OF 1 JUL 66 WHICH MAY BE USED

# REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. DATE OF SHIPMENT: 25 JUL 50  
 2. ORIGINATOR: 57045-C-606  
 3. DATE OF RECEIPT: 25 JUL 50  
 4. DATE OF PAYMENT: 25 JUL 50  
 5. DATE OF DELIVERY: 25 JUL 50  
 6. DATE OF RECEIPT: 25 JUL 50  
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 28. DATE OF RECEIPT: 25 JUL 50  
 29. DATE OF RECEIPT: 25 JUL 50  
 30. DATE OF RECEIPT: 25 JUL 50

## ACCOUNTING AND FORWARDING DATA

STOCK NUMBER	DESCRIPTION	AND CODES OF MATERIAL AND/OR SERVICES	QUANTITY RECEIVED	SUPPLY ACTION	CON. TRAINER NO.	UNIT PRICE	TOTAL COST
6	PC Board Ejector	530524-11	6	Sack		.50	3.00
7	PC Board Ejector	530524-12	4	Sack		.50	2.00
8	PC Board Ejector	530524-13	9	Sack		.50	4.50
9	PC Board Ejector	530524-14	2	Sack		.50	1.00
10	PC Board Ejector	530524-15	16	Sack		8.00	8.00
11	PC Board Ejector	530524-18	11	Sack		.50	5.50
12	PC Board Ejector	530524-20	2	Sack		.50	1.00
13	PC Board Ejector	530524-21	19	Sack		.50	9.50
14	PC Board Ejector	530524-22	3	Sack		.50	1.50
15	PC Board Ejector	530524-23	2	Sack		.50	1.00
16	PC Board Ejector	530524-25	12	Sack		.50	6.00
17	PC Board Ejector	530524-26	5	Sack		.50	2.50
18	PC Board Ejector	530524-27	7	Sack		.50	3.50
19	PC Board Ejector	530524-28	3	Sack		.50	1.50
20	PC Board Ejector	530524-29	6	Sack		.50	3.00

14. ISSUED BY: [Signature]  
 15. CHECKED BY: [Signature]  
 16. PACKED BY: [Signature]  
 17. TOTAL CONTAINERS: 1149  
 18. TOTAL WEIGHT: 1149  
 19. TOTAL COST: 1149  
 20. TOTAL RECEIVED: 1149  
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SHIPPING CONTAINER TALLY

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. SHEET NO. OF SHEETS 231 25		2. DATE MATERIAL RECEIVED		3. PRIORITY	
4. AUTHORITY OR PURPOSE		5. TOUCHED NUMBER AND DATE 57045-C-606		6. TOUCHED NUMBER AND DATE	
7. SIGNATURE		8. DATE SHIPPED		9. BILL OF LADING NUMBER	
10. MODE OF SHIPMENT		11. AIR MOVEMENT DESIGNATION OR POST REFERENCE NUMBER			

4. ACCOUNTING AND FUNDING DATA

ITEM NO.	STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICE	QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
81	PC Board Ejector Pin	175	Sack	N/C	N/C
82	Jack Tip White	94	Sack	.12	11.28
83	Jack Tip Red	95	Sack	.12	11.40
84	Jack Tip Blk	22	Sack	.12	2.64
85	Jack Tip Yellow	235	Sack	.08	18.80
86	Lug	25	Sack	.07	1.75
87	Lug	6	Sack	.19	1.14
88	Lug	21	Sack	.11	2.31
89	Light Panel	2	Sack	1.31	2.62
90	Light Panel	3	Sack	1.33	3.93
91	Light Neon	2	Sack	1.05	2.10
92	Tube Socket	35	Sack	.21	7.35
93	Tube Socket	14	Sack	.21	2.94
94	Receptacle Panel Fastener	3	Sack	1.74	5.22
95	Guide Britcher	6	Sack	.65	3.90

16. ISSUED BY	TOTAL CONTAINERS RECEIVED EXCEPT AS NOTED	DATE	17. RECEIPT	TOTAL CUBE	TOTAL WEIGHT	DESCRIPTION	TOTAL
CHECKED BY	DATE	DATE	DATE				
PACKED BY	DATE	DATE	DATE				
DD FORM 1 MAY 60 1149							



SHIPPING CONTAINER TALLY

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. ISSUED BY		2. CHECKED BY		3. DATE		4. QUANTITY		5. DESCRIPTION		6. UNIT PRICE		7. TOTAL COST	
241		25		25		25		25		25		25	
8. DATE		9. DATE		10. DATE		11. DATE		12. DATE		13. DATE		14. DATE	
15. DATE		16. DATE		17. DATE		18. DATE		19. DATE		20. DATE		21. DATE	
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ACCOUNTING AND FUNDING DATA

ITEM NO.	STOCK NUMBER, DESCRIPTION, AND CODES OF MATERIAL AND/OR SERVICES	QUANTITY REQUESTED	SUPPLY ACTION	CON. TRAINER NO.	UNIT PRICE	TOTAL COST
16	Connector Key	200	Sack		.02	4.00
17	Insulator Disk	69	Sack		.05	3.45
18	Knob	3	Sack		.68	2.04
19	Crycal Holder	1	Sack		.70	.70
20	Barrier	1	Sack		4.0	.40
21	Waffer-Centralab	1	Sack		1.10	1.10
22	Waffer-Centralab	1	Sack		.99	.99
23	Jack Banana	3	Sack		10	.30
24	Jack Banana	5	Sack		.22	1.10
25	Tyrap	29	Sack		.07	2.03
26	Fuse Shawmut	1	Sack		.90	.90
27	Lug	4	Sack		.07	.28
28	Nameplates	9	Sack		.70	6.30
29	Misc. Hardware	1	Sack		EST.	1.00
30	Strip, Ground Terminal	1	Sack		.70	.70

16. ISSUED BY	17. CONTAINER RECEIVED EXCEPT AS NOTED	18. DATE	19. QUANTITIES RECEIVED EXCEPT AS NOTED	20. DATE	21. POSTED	22. RECEIPT	23. TOTAL	24. RECEIPT'S VOUCHER NO.
CHECKED BY	CONTAINER RECEIVED EXCEPT AS NOTED	DATE	QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	POSTED	RECEIPT	TOTAL	RECEIPT'S VOUCHER NO.
PACKED BY	CONTAINER RECEIVED EXCEPT AS NOTED	DATE	QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	POSTED	RECEIPT	TOTAL	RECEIPT'S VOUCHER NO.

DD FORM 1 MAY 54 1149

REPLACES EDITION OF 1 JUL 54 WHICH MAY BE USED

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

# REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. SHEET NO. OF 25  
2. REQUISITION DATE 25/1/59  
3. REQUISITION NUMBER 149

4. DATE WHEN RECEIVED  
5. AUTHORITY OR PURPOSE  
6. SIGNATURE  
7. VOUCHER NUMBER AND DATE 57045-C-606  
8. VOUCHER NUMBER AND DATE  
9. BILL OF LADING NUMBER  
10. AIR MOVEMENT DESIGNATOR OR PART REFERENCE NUMBER

11. ACCOUNTING AND FUNDING DATA

STOCK NUMBER, DESCRIPTION, AND CORDING OF MATERIAL AND/OR SERVICES

51 Power Supply  
52 Jumper Barrier

Model 27007  
142J-2

QUANTITY REQUESTED	SUPPLY ACTION	UNIT PRICE	TOTAL COST
1	Shck	185.00	185.00
38	Shck	.03	1.14
TOTAL			
185.00			
1.14			

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DD FORM 1149

REPLACES EDITION OF 1 JUL 56 WHICH MAY BE USED



APPENDIX J

SPARE PARTS AND RESIDUAL EQUIPMENT



<u>DESCRIPTION</u>	<u>QUANTITY</u>
Propane torch	1
Fuses, assorted 1/100A - 4A	50
Transistors & diodes, assorted	200
Resistors - ohmite assorted	2 cabinets
AEI protectors, type 16A	38
AEI protector brackets	39
Capacitors, assorted	115
Rheostats & Potentiometers, assorted	51
Switches, assorted	26
Brass valves & fittings	20
Lamps, assorted	100
Trimpots	35
LP seis flexure assembly	2
Flexure ribbons	37
Weller solder gun	3
Ungar solden iron	1
Relays for PCU	4
X former, Geotech 4960	2
Galvo Test Set Geotech 7762 S/N 54	1
Programmer boards	11
Relay, assorted	17
X former, Triad HSM 301	1
Filter Hiconic CBP, 1KC	1
X former, output, for Collins radio	1
Helicorder parts, assorted	-
Tester switch, J-B-T MS-20-1	1
X former, Thordarson, 21F09	1
Resistance networks	3



<u>DESCRIPTION</u>	<u>QUANTITY</u>
Motor, Merkle-Korff, SG 25	1
Inner brush for GR Regulator VBT-5	2
Outer brush for GR Reg. VBT-2	1
Tubes, assorted	172
Date timer parts, assorted	-
Develocorder pump parts assorted	-
Develocorder parts, assorted rollers, gears	-
Brass wts., assorted	24
GR plugs, assorted	20
AC plugs, assorted	24
Terminals, assorted	200
Connectors	100
Motor, EAD, L71WJ	1
Motor, EAD, T70J1	1
Motor, Merkle-Korff SG15	3
Motor, Synchron 110V, 60 cps, 3W	6
Drive belts, tape recorders	4
Tape guide	9
X former, merit P2962	1
Motor, AYAA707110	4
Resistors, misc.	65
Choke, Thordarson 20C71	1
Lamp, CAX, 50W	4
Cap. Cornell-Dubilier, TJU6100	1
Motor, 451-3	2
Develocorder blower motor F1572765	2
Helicorder pens, 3197-A	8
Cal. kit 10391	1
Motor, Beckman, blower	1

<u>DESCRIPTION</u>	<u>QUANTITY</u>
Assorted plugs	-
Cable splicing kit	26
Assorted instrument lamps	
Lamps, CVS, 200W, 115-120V	9
Ballast, fluorescent, 446	16
Film	390 reels
Developer	120 pts.
Fixer	156 bottles
Bleach	17 cans
Reels	600
Helicorder paper	450 sheets
Hardhats	2
Pwr. supply, date-timer	1

Unclassified

Security Classification

DOCUMENT CONTROL DATA - R&D		
(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)		
1. ORIGINATING ACTIVITY (Corporate author) Texas Instruments Incorporated Science Services Division P. O. Box 5621, Dallas, Texas 75222		2a. REPORT SECURITY CLASSIFICATION Unclassified
		2b. GROUP _____
3. REPORT TITLE CUMBERLAND PLATEAU OBSERVATORY, QUARTERLY REPORT NO. 7		
4. DESCRIPTIVE NOTES (Type of report and inclusive dates) Quarterly Report; 1 February 1967 through 30 April 1967		
5. AUTHOR(S) (Last name, first name, initial) Edwards, James P., III		
6. REPORT DATE 30 June 1967	7a. TOTAL NO. OF PAGES 89	7b. NO. OF REFS 6
8a. CONTRACT OR GRANT NO. Contract AF 33(657)-14648 b. PROJECT NO. Project Code 5810 c. VT/6704	9a. ORIGINATOR'S REPORT NUMBER(S) _____ 9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report) _____	
10. AVAILABILITY/LIMITATION NOTICES This document is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with prior approval of Chief, AFTAC		
11. SUPPLEMENTARY NOTES ARPA Order 624	12. SPONSORING MILITARY ACTIVITY Advanced Research Projects Agency Department of Defense The Pentagon Washington, D. C. 20301	
13. ABSTRACT Work conducted under Contract AF 33(657)-14648, VT/6704, during the final quarter (1 February 1967 through 30 April 1967) is reviewed in this report. Activities during this period were directed primarily toward routine observatory operation, completion of all research tasks and preparation of special reports covering this work, and transfer of the observatory facilities and equipment.		

DD FORM 1473  
1 JAN 64

Unclassified

Security Classification



Unclassified

Security Classification

13. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
Contract AF 33(657)-14648						
Transfer of CPO Facilities and Equipment						

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1. **ORIGINATING ACTIVITY:** Enter the name and address of the contractor, subcontractor, grantee, Department of Defense activity or other organization (corporate author) issuing the report.

2a. **REPORT SECURITY CLASSIFICATION:** Enter the overall security classification of the report. Indicate whether "Restricted Data" is included. Marking is to be in accordance with appropriate security regulations.

2b. **GROUP:** Automatic downgrading is specified in DoD Directive 5,000.10 and Armed Forces Industrial Manual. Enter the group number. Also, when applicable, show that optional markings have been used for Group 3 and Group 4 as authorized.

3. **REPORT TITLE:** Enter the complete report title in all capital letters. Titles in all cases should be unclassified. If a meaningful title cannot be selected without classification, show title classification in all capitals in parenthesis immediately following the title.

4. **DESCRIPTIVE NOTES:** If appropriate, enter the type of report, e.g., interim, progress, summary, annual, or final. Give the inclusive dates when a specific reporting period is covered.

5. **AUTHOR(S):** Enter the name(s) of author(s) as shown on or in the report. Enter last name, first name, middle initial. If military, show rank and branch of service. The name of the principal author is an absolute minimum requirement.

6. **REPORT DATE:** Enter the date of the report as day, month, year; or month, year. If more than one date appears on the report, use date of publication.

7a. **TOTAL NUMBER OF PAGES:** The total page count should follow normal pagination procedures, i.e., enter the number of pages containing information.

7b. **NUMBER OF REFERENCES:** Enter the total number of references cited in the report.

8a. **CONTRACT OR GRANT NUMBER:** If appropriate, enter the applicable number of the contract or grant under which the report was written.

8b, 8c, & 8d. **PROJECT NUMBER:** Enter the appropriate military department identification, such as project number, subproject number, system numbers, task number, etc.

9a. **ORIGINATOR'S REPORT NUMBER(S):** Enter the official report number by which the document will be identified and controlled by the originating activity. This number must be unique to this report.

9b. **OTHER REPORT NUMBER(S):** If the report has been assigned any other report numbers (either by the originator or by the sponsor), also enter this number(s).

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- (2) "Foreign announcement and dissemination of this report by DDC is not authorized."
- (3) "U. S. Government agencies may obtain copies of this report directly from DDC. Other qualified DDC users shall request through \_\_\_\_\_."
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- (5) "All distribution of this report is controlled. Qualified DDC users shall request through \_\_\_\_\_."

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11. **SUPPLEMENTARY NOTES:** Use for additional explanatory notes.

12. **SPONSORING MILITARY ACTIVITY:** Enter the name of the departmental project office or laboratory sponsoring (paying for) the research and development. Include address.

13. **ABSTRACT:** Enter an abstract giving a brief and factual summary of the document indicative of the report, even though it may also appear elsewhere in the body of the technical report. If additional space is required, a continuation sheet shall be attached.

It is highly desirable that the abstract of classified reports be unclassified. Each paragraph of the abstract shall end with an indication of the military security classification of the information in the paragraph, represented as (TS), (S), (C), or (U).

There is no limitation on the length of the abstract. However, the suggested length is from 150 to 225 words.

14. **KEY WORDS:** Key words are technically meaningful terms or short phrases that characterize a report and may be used as index entries for cataloging the report. Key words must be selected so that no security classification is required. Identifiers, such as equipment model designation, trade name, military project code name, geographic location, may be used as key words but will be followed by an indication of technical context. The assignment of links, rules, and weights is optional.

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## KEY WORDS

Contract AF 33(657)-14648

Transfer of CPO Facilities and Equipment

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## LINK B

## LINK C

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